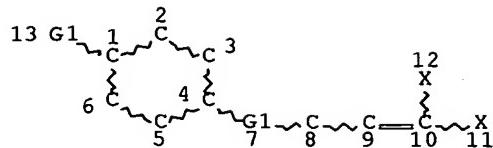


=> d que 137

L3

STR



VAR G1=O/N/S

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

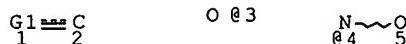
GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L6 STR



VAR G1=3/4

NODE ATTRIBUTES:

NSPEC IS RC AT 2

CONNECT IS E1 RC AT 3

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE

L7 2411 SEA FILE=REGISTRY SSS FUL L3

L10 1244 SEA FILE=REGISTRY SUB=L7 SSS FUL L6

L17 1015 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND 2-100/NR

L20 60 SEA FILE=HCAPLUS ABB=ON PLU=ON L17

L22 23 SEA FILE=HCAPLUS ABB=ON PLU=ON ZAMBACH, W?/AU

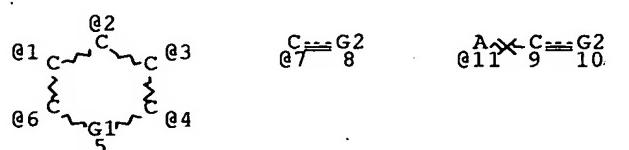
L23 3773 SEA FILE=HCAPLUS ABB=ON PLU=ON HALL, R?/AU

L24 27 SEA FILE=HCAPLUS ABB=ON PLU=ON RENOLD, P?/AU

L25 56 SEA FILE=HCAPLUS ABB=ON PLU=ON TRAH, S?/AU

L26 6 SEA FILE=HCAPLUS ABB=ON PLU=ON (L22 OR L23 OR L24 OR  
L25) AND L20

L31 STR



G3 @12

VAR G1=CH/N  
 VAR G2=O/N  
 VAR G3=7/11  
 VPA 12-1/2/3/4/6 U  
 NODE ATTRIBUTES:  
 NSPEC IS RC AT 7  
 NSPEC IS RC AT 9  
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 DEFAULT MLEVEL IS ATOM  
 DEFAULT ELEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE  
 L33 813 SEA FILE=REGISTRY SUB=L7 SSS FUL L31  
 L34 71 SEA FILE=HCAPLUS ABB=ON PLU=ON L33  
 L35 66 SEA FILE=HCAPLUS ABB=ON PLU=ON L34 AND (AGR OR BSU OR  
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 L36 54 SEA FILE=HCAPLUS ABB=ON PLU=ON L35 AND (1840-2003)/PRY,AY  
     ,PY  
 L37 49 SEA FILE=HCAPLUS ABB=ON PLU=ON L36 NOT L26

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L37 ANSWER 1 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:996170 HCAPLUS Full-text  
 DOCUMENT NUMBER: 141:424174  
 TITLE: Preparation of arylisoxazolines and related  
       compounds as pesticides.  
 INVENTOR(S): Jeschke, Peter; Mueller, Michael; Escher, Iris;  
               Malsam, Olga; Haack, Karl-Josef; Braun, Ralf;  
               Arnold, Christian  
 PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 175 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004099197	A2	20041118	WO 2004-EP4415	20040427 -->
WO 2004099197	A3	20050127		
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 CN 1820006 A 20060816 CN 2004-80019479 20040427  
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 JP 2006525964 T 20061116 JP 2006-505279 20040427  
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 PRIORITY APPLN. INFO.: . DE 2003-10320782 A 20030509  
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 WO 2004-EP4415 W 20040427

OTHER SOURCE(S): MARPAT 141:424174

ED Entered STN: 19 Nov 2004

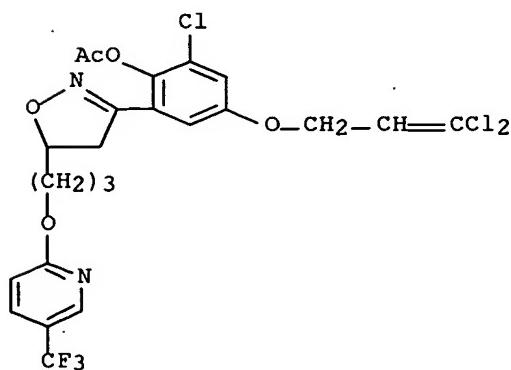
AB Title compds. [I; A1 = CH<sub>2</sub>CH:CCl<sub>2</sub>, CH<sub>2</sub>CH:CF<sub>2</sub>, CH<sub>2</sub>CH:CClF, 5-trifluoromethylpyridin-2-yl, 5-chloropyridin-2-ylmethyl, 2,2-dichlorocyclopropan-1-ylmethyl, etc.; A2 = alkylene, alkenylene optionally interrupted by O, S, SO, SO<sub>2</sub>, NH, NA; A = alkyl; R<sub>1</sub> = H, NO<sub>2</sub>, OH, amino, cyano, halo, (substituted) alkyl, alkoxy, alkylthio, alkylamino, etc.; R<sub>2</sub> = H, NO<sub>2</sub>, OH, amino, cyano, cyanato, thiocyanato, CHO, halo, (substituted) alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, etc.; R<sub>3</sub> = H, NO<sub>2</sub>, OH, amino, cyano, halo, (substituted) alkyl, alkoxy, alkylthio, alkylamino, dialkylamino, alkylcarbonylamino; R<sub>4</sub> = H, NO<sub>2</sub>, OH, amino, cyano, halo, (substituted) alkyl, alkoxy, alkylthio, alkylamino, dialkylamino, alkylcarbonylamino; R<sub>5</sub> = H, (substituted) aryl, heteroaryl], were prepared Thus, 3-chloro-5-(3,3-dichloroallyloxy)-2-methoxybenzaldehyde oxime (preparation given) was stirred 2 h with N-chlorosuccinimide in DMF; 2-(pent-4-en-1-yloxy)-5-trifluoromethylpyridine (preparation given) and Et<sub>3</sub>N were added and the mixture was kept 16 h to give 40% title compound (II). II at 100 ppm on cabbage leaves gave a 100% kill of Spodoptera exigua after 7 days.

IT 796117-81-2P

(preparation of arylisoxazolines and related compds. as pesticides)

RN 796117-81-2 HCPLUS

CN Phenol, 2-chloro-4-[(3,3-dichloro-2-propenyl)oxy]-6-[4,5-dihydro-5-[3-[(5-(trifluoromethyl)-2-pyridinyl)oxy]propyl]-3-isoxazolyl]-, acetate (ester) (9CI) (CA INDEX NAME)



IC ICM C07D413-12  
 ICS C07D271-06; C07D261-08; C07D261-04  
 CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 5  
 IT 796116-38-6P 796116-40-0P 796116-42-2P 796116-44-4P  
 796116-46-6P 796116-48-8P 796116-50-2P 796116-52-4P  
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 (preparation of arylisoxazolines and related compds. as pesticides)  
 IT 75-45-6, Chlorodifluoromethane 94-82-6, 4-(2,4-Dichlorophenoxy)butyric acid 100-39-0, Benzyl bromide 109-90-0,  
 Ethyl isocyanate 328-67-6 490-78-8 534-03-2,  
 2-Aminopropan-1,3-diol 534-07-6, 1,3-Dichloroacetone 542-69-8,  
 1-Iodobutane 821-09-0, 4-Penten-1-ol 821-41-0, 5-Hexen-1-ol  
 1119-51-3, 5-Bromo-1-pentene 2150-46-1, Methyl 2,5-dihydroxybenzoate  
 2969-81-5, Ethyl 4-bromobutyrate 5188-07-8, Sodium methanethiolate  
 5332-06-9, 4-Bromobutanenitrile 13621-50-6 33252-63-0,  
 5-Trifluoromethylpyridin-2-ol 36469-73-5, 3-Bromo-1,1-dichloropropene 52334-81-3, 2-Chloro-5-trifluoromethylpyridine  
 53370-50-6 69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine  
 82396-42-7 180526-90-3 190142-96-2 345201-02-7 796117-79-8  
 796120-81-5 796120-83-7 796120-85-9 796120-87-1 796120-89-3  
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 (preparation of arylisoxazolines and related compds. as pesticides)  
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(preparation of arylisoxazolines and related compds. as pesticides)

L37 ANSWER 2 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:964833 HCPLUS Full-text  
 DOCUMENT NUMBER: 141:410815  
 TITLE: Preparation of (dihalopropenyl) phenylalkyl substituted dihydrobenzofuran and dihydrobenzopyran derivatives as insecticides  
 INVENTOR(S): Theodoridis, George; Barron, Edward J.; Suarez, Dominic P.; Zhang, Y. Larry; Ding, Ping; Roush, David M.; Donovan, Stephen F.; Zawacki, Frank J.; Yeager, Walter H.; Lyga, John W.; Cohen, Daniel H.  
 PATENT ASSIGNEE(S): Fmc Corporation, USA  
 SOURCE: U.S. Pat. Appl. Publ., 28 pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004224994	A1	20041111	US 2004-832624 ---	20040427
US 6987194	B2	20060117		
AU 2004236195	A1	20041118	AU 2004-236195 ---	20040427
AU 2004237745	A1	20041118	AU 2004-237745 ---	20040427
CA 2523085	A1	20041118	CA 2004-2523085 ---	20040427
CA 2523191	A1	20041118	CA 2004-2523191 ---	20040427
WO 2004098283	A2	20041118	WO 2004-US12886 ---	20040427
WO 2004098283	A3	20050407		

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WO 2004099145 A3 20050120

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EP 1620421	A2	20060201	EP 2004-760587	20040427
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WO 2004099105 A3 20051013

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 BR 2004009682 A 20060418 BR 2004-9682 20040428  
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 BR 2004009795 A 20060530 BR 2004-9795 20040428  
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 CN 1780828 A 20060531 CN 2004-80011459 20040428  
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 CN 1780619 A 20060531 CN 2004-80011460 20040428  
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 JP 2006525337 T 20061109 JP 2006-513376 20040428  
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 PRIORITY APPLN. INFO.: US 2003-466674P P 20030430  
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 US 2004-832624 A3 20040427  
 WO 2004-US12886 W 20040427  
 WO 2004-US12890 W 20040427

OTHER SOURCE(S): MARPAT 141:410815

ED Entered STN: 12 Nov 2004

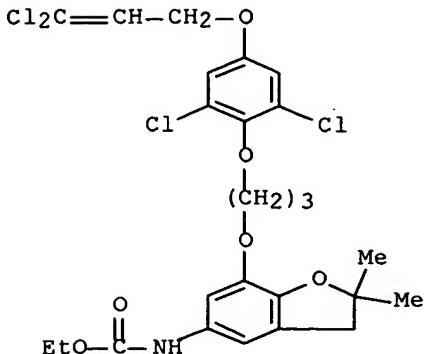
AB The title compds. (I) [R, R3 = H, halogen, HO, alkyl, cycloalkyl, alkenyl, alkynyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfonyl, haloalkylsulfonyl, cyano, nitro, each (un)substituted NH<sub>2</sub>, etc.; R1, R2 = H, halogen, alkyl; R4 = H; R5 = halogen; E = CH<sub>2</sub>, O, S, (un)substituted NH; G = O, S, CH<sub>2</sub>O\*, (CH<sub>2</sub>)<sub>n</sub> (where the asterisk denotes attachment to E; n = 1, 2; provided that E and G are not simultaneously O or S); x = 0, 1; when x = 1, A = O, S(O)p and (un)substituted NH (where p = 0, 1, 2); B = (un)substituted \*-(CH<sub>2</sub>)<sub>q</sub>-(CH<sub>2</sub>)<sub>r</sub>-(CH<sub>2</sub>)<sub>s</sub>-Lt-(CH<sub>2</sub>)<sub>u</sub>-(CH<sub>2</sub>)<sub>v</sub>-(CH<sub>2</sub>)<sub>w</sub>- (where the asterisk denotes attachment at A; q, r, s, u, v, w = 0, 1, 2; t = 0, 1; when t = 1, L = CH:CH; O, S(O)p; OS(O)O, S(O)O<sub>2</sub>, (un)substituted NH, NHSO<sub>2</sub>, or NHCONH; Si(CH<sub>3</sub>)<sub>2</sub>, CO, OC(O), NHCO; ON:CH, etc.); y = 0, 1; when y = 1, D = O, S(O)p, (un)substituted NH (wherein p = 0-2); R6-R9 = H, halogen, alkyl, cycloalkyl, alkenyl, alkynyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfonyl, haloalkylsulfonyl, cyano, nitro, aryl, etc; R10, R11 = independently selected from hydrogen, halogen, hydroxy, alkyl, alkoxy, or R10 and R11 taken together are O forming CO, OCH<sub>2</sub>CH<sub>2</sub>O or SCH<sub>2</sub>CH<sub>2</sub>S forming a ketal or a thioketal group, or (un)substituted NOH forming an oxime; M = each (un)substituted \*CH<sub>2</sub> or \*CH<sub>2</sub>CH<sub>2</sub> (where the asterisk indicates attachment to O)], and agriculturally acceptable salts thereof are prepared. These compds. provide unexpected insecticidal activity across a spectrum of insect pests combined with desirable phys. properties including improved photostability. In addition, compns. comprising an insecticidally effective amount of at least one compound of formula I and methods of controlling insects by applying said compns. to a locus where insects are present or are expected to be present are also disclosed. Thus, a stirred solution of 0.44 g (0.0011 mol) 4-[4-[(2,2-dimethyl-2,3-dihydrobenzo[2,3-b]furan-7-yl)oxy]butoxy]-3,5-dichlorophenol, 0.3 g (0.0015 mol) 1,1,1,3-tetrachloropropane, and 0.3 g (0.0022 mol) K<sub>2</sub>CO<sub>3</sub> in 25 mL DMF was heated at 80° for .apprx.18 h to give, after workup and silica gel chromatog., 0.39 g 5-(3,3-dichloroprop-2-enyloxy)-2-[4-[(2,2-dimethyl-2,3-dihydrobenzo[2,3-b]furan-7-yl)oxy]butoxy]-1,3-dichlorobenzene (II). A wheat germ-based artificial diet containing 0.25 mmol II exhibited 100% mortality and 100% growth inhibition in tobacco budworm [*Heliothis virescens* (*Fabri*cious)].

IT 791063-52-0P

(preparation of (dihalopropenyl) phenylalkyl-substituted dihydrobenzofuran and dihydrobenzopyran derivs. as insecticides)

RN 791063-52-0 HCPLUS

CN Carbamic acid, [7-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]-2,3-dihydro-2,2-dimethyl-5-benzofuranyl]-, ethyl ester (9CI) (CA INDEX NAME)



IC ICM A61K031-427

ICS A61K031-4245; A61K031-42; C07D417-02; C07D413-02

INCL 514364000; X51-437.9; X51-436.5; X54-813.1; X54-818.1; X54-824.1

CC 27-15 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 5

IT 791063-43-9P 791063-44-0P 791063-47-3P 791063-48-4P

**791063-49-5P 791063-50-8P 791063-51-9P 791063-52-0P**

791063-53-1P 791063-54-2P 791063-55-3P 791063-56-4P

791063-57-5P 791063-58-6P 791063-59-7P 791063-60-0P

791063-61-1P 791063-62-2P 791063-63-3P 791063-64-4P

791063-65-5P 791063-66-6P 791063-67-7P 791063-68-8P

**791063-69-9P 791063-70-2P 791063-71-3P**

791063-72-4P 791063-73-5P 791063-74-6P 791063-75-7P

791063-76-8P 791063-77-9P 791063-78-0P 791063-79-1P

791063-80-4P 791063-81-5P 791063-82-6P 791063-83-7P

791063-84-8P 791063-85-9P 791063-86-0P 791063-87-1P

791063-88-2P 791063-89-3P 791063-90-6P 791063-91-7P

791063-92-8P 791063-93-9P 791063-94-0P

**791063-95-1P 791063-96-2P**

(preparation of (dihalopropenyl) phenylalkyl-substituted dihydrobenzofuran and dihydrobenzopyran derivs. as insecticides)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 3 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:650899 HCPLUS Full-text

DOCUMENT NUMBER: 141:173978

TITLE: Preparation of aminoacetonitrile derivatives as agricultural and horticultural insecticides

INVENTOR(S): Andoh, Nobuharu; Sanpei, Osamu; Sakata, Kazuyuki

PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 48 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

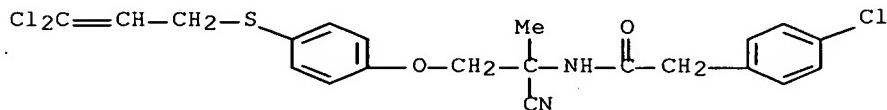
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1445251	A1	20040811	EP 2004-10346	19990428 <--

EP 1445251	B1	20061227		
R: CH, DE, FR, GB, IT, LI				
EP 953565	A2	19991103	EP 1999-107461	19990428
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EP 953565	A3	20021204		
EP 953565	B1	20040908		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRIORITY APPLN. INFO.:			JP 1998-137806	A 19980501
			<--	
			EP 1999-107461	A3 19990428
			<--	

OTHER SOURCE(S): MARPAT 141:173978

ED Entered STN: 13 Aug 2004  
 AB The title compds. Ar1(Q)dC(O)NR3C(CN)R4(CR5R6)aW(CR7R8)bAr2 [I; Ar1, Ar2 = (substituted) Ph, (substituted) phenoxy, (substituted) phenylacetylene; (substituted) pyridyl and (substituted) naphthyl; Q = CR1R2 (wherein R1, R2 = H, halo, (halo)alkyl, etc.); R3 = H, (halo)alkyl, etc.; R4-R8 = H, halo, (halo)alkyl, etc.; W = O, S, SO<sub>2</sub> or NR9 (wherein R9 = H, alkyl); a, b = 0-4; d = 0-1], useful as insecticides, were prepared E.g., a multi-step synthesis of II (starting from 4-chlorophenol and bromoacetaldehyde dimethylacetal), was given. The compds. I were tested against diamondback moth and against smaller tea tortrix (data were given for representative compds. I).  
 IT 247198-26-1P  
     (preparation of aminoacetonitrile derivs. as agricultural and horticultural insecticides)  
 RN 247198-26-1 HCPLUS  
 CN Benzeneacetamide, 4-chloro-N-[1-cyano-2-[4-[(3,3-dichloro-2-propenyl)thio]phenoxy]-1-methylethyl]- (9CI) (CA INDEX NAME)



IC ICM C07C255-26  
 ICS A01N037-34; C07C317-14; C07D213-82  
 CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5, 27  
 IT 247197-14-4P 247197-20-2P 247197-22-4P 247197-35-9P  
 247197-37-1P 247197-39-3P 247197-41-7P 247197-43-9P  
 247197-45-1P 247197-47-3P 247197-49-5P 247197-50-8P  
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736172-79-5P			

(preparation of aminoacetonitrile derivs. as agricultural and horticultural insecticides)

IT 736172-80-8P 736172-81-9P 736172-82-0P **736172-83-1P**  
**736172-86-4P** 736172-88-6P 736172-89-7P 736172-90-0P  
 736172-91-1P 736172-92-2P 736172-93-3P 736172-94-4P

(preparation of aminoacetonitrile derivs. as agricultural and horticultural insecticides)

L37 ANSWER 4 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:565184 HCPLUS Full-text  
 DOCUMENT NUMBER: 141:131695  
 TITLE: Perfluoroallyloxy compound and liquid-crystal composition containing the same for electrooptical display element  
 INVENTOR(S): Shinano, Hirokatsu; Otsuka, Takahiro; Irisawa, Masatomi

PATENT ASSIGNEE(S): Asahi Denka Co., Ltd., Japan  
 SOURCE: PCT Int. Appl., 47 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004058676	A1	20040715	WO 2003-JP15547	20031204 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003289187	A1	20040722	AU 2003-289187	20031204 <--
EP 1577286	A1	20050921	EP 2003-777258	20031204 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1692091	A	20051102	CN 2003-80100305	20031204 <--
US 2005161637	A1	20050728	US 2004-505080	20040820 <--
US 7001647	B2	20060221		
PRIORITY APPLN. INFO.:			JP 2002-372303	A 20021224 <--
			JP 2003-8467	A 20030116 <--
			WO 2003-JP15547	W 20031204 <--

OTHER SOURCE(S): MARPAT 141:131695

ED Entered STN: 15 Jul 2004

AB Disclosed is a novel perfluoroallyloxy compound represented by the following general formula I (R1 = substituent; A1,2 = 1,4-phenylene, etc.; B = single bond, alkylene; Z1 = single bond, COO, etc.; and n = integer 1-3) in a liquid-crystal composition. The perfluoroallyloxy compound is useful for an electrooptical display element.

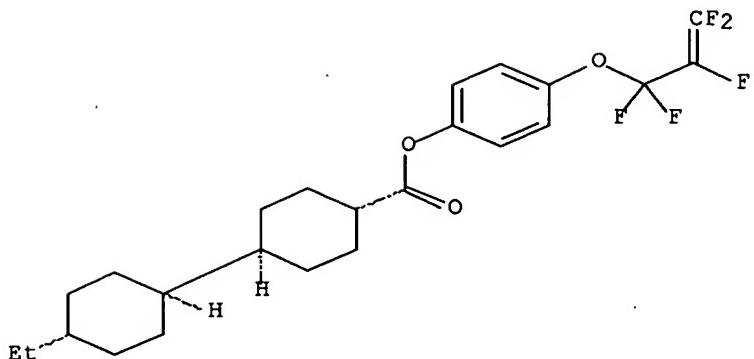
IT 723246-41-1

(perfluoroallyloxy compound in liquid-crystal composition for electrooptical display element)

RN 723246-41-1 HCPLUS

CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-ethyl-, 4-[(1,1,2,3,3-pentafluoro-2-propenyl)oxy]phenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IC ICM C07C043-172  
 ICS C07C043-192; C07C043-225; C07C069-773; C07D239-04; C07D319-06;  
 C09K019-30; C09K019-20; C09K019-18; C09K019-34; G02F001-13  
 CC 75-11 (Crystallography and Liquid Crystals)  
 Section cross-reference(s): 74  
 IT 56131-48-7 61203-99-4 67589-39-3 72928-54-2 80944-44-1  
 81701-13-5 84655-98-1 84656-77-9 84656-92-8 84816-56-8  
 86776-50-3 86776-51-4 87073-93-6 88416-84-6 88639-41-2  
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 316811-81-1 **723246-41-1** 723246-42-2 723246-43-3  
 (perfluoroallyloxy compound in liquid-crystal composition for  
 electrooptical  
 display element)

L37 ANSWER 5 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2003:837024 HCPLUS Full-text  
 DOCUMENT NUMBER: 139:337783  
 TITLE: Preparation of strobilurine analogs as acaricides,  
 insecticides, and fungicides.  
 INVENTOR(S): Venturini, Isabella; Bettarini, Franco; Castoro,  
 Paolo; Ciapessoni, Alessandro; Gusmeroli,  
 Marilena; Meazza, Giavanni; Portoso, Domenico;  
 Sargiotto, Chiara  
 PATENT ASSIGNEE(S): Isagro Ricerca S.r.l., Italy  
 SOURCE: PCT Int. Appl., 62 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003087032	A1	20031023	WO 2003-EP3784	20030411

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 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,  
 LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,

NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
IT 2002MI0814	A1	20031017	IT 2002-MI814 <--	20020417
AU 2003233966	A1	20031027	AU 2003-233966 <--	20030411
EP 1494991	A1	20050112	EP 2003-727293 <--	20030411
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003009035	A	20050201	BR 2003-9035 <--	20030411
CN 1646472	A	20050727	CN 2003-808587 <--	20030411
JP 2005522500	T	20050728	JP 2003-583988 <--	20030411
US 2006235075	A1	20061019	US 2005-510383 <--	20050330
PRIORITY APPLN. INFO.:			IT 2002-MI814 <--	A 20020417
			WO 2003-EP3784 <--	W 20030411

OTHER SOURCE(S): MARPAT 139:337783

ED Entered STN: 24 Oct 2003

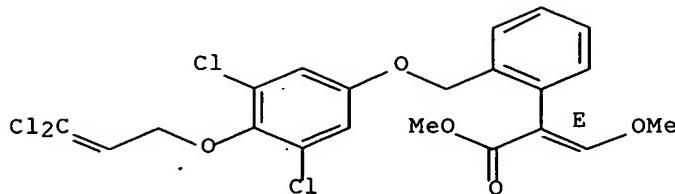
AB Title compds. [I; X<sub>1</sub>, X<sub>2</sub>, X<sub>3</sub> = R; X<sub>4</sub>, X<sub>5</sub> and 2 of the remaining X<sub>1</sub>, X<sub>2</sub>, X<sub>3</sub> = H, halo, ≥2 of said groups halo; R = (substituted) alkyl, haloalkyl, alkoxy, alkylthio, alkoxyalkoxy, NH<sub>2</sub>, trialkylsilyl, aryloxy, heteroaryloxy, alkenyloxy, alkenylthio, heteroaryl, alkynyoxy, alkynylthio, aryl, heteroaryl, cycloalkylthio, cycloalkylalkoxy, cycloalkylalkylthio, heterocyclyloxy, etc.; Y = OMe, NHMe, NH<sub>2</sub>; Z = CH, N; n = 0-4], were prepared Thus, 4-cyclopropylmethoxy-3,5-dichlorophenol in DMF is added dropwise at 0° to a suspension of NaH in DMF; the mixture is kept under stirring at room temperature for 30 min and a solution of Me (E)-2-(2-bromomethylphenyl)-3-methoxyacrylate in DMF is then added. The mixture is kept under stirring for 4 h to give Me (E)-2-[2-(4-cyclopropylmethoxy-3,5-dichlorophenoxy)methyl]phenyl]-3-methoxyacrylate. I at 200 ppm showed full activity against Tetranychus urticae.

IT **616899-05-9P**  
(preparation of strobilurine analogs as acaricides, insecticides, and fungicides)

RN 616899-05-9 HCAPLUS

CN Benzeneacetic acid, 2-[[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]methyl]-α-(methoxymethylene)-, methyl ester, (αE)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IC ICM C07C069-734  
 ICS C07C259-10; A01N037-50; C07C067-343  
 CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5  
 IT 616898-99-8P 616899-00-4P 616899-01-5P 616899-02-6P  
 616899-03-7P 616899-04-8P **616899-05-9P**  
**616899-06-0P 616899-07-1P** 616899-08-2P  
 616899-09-3P 616899-10-6P 616899-11-7P 616899-12-8P  
 616899-13-9P 616899-14-0P 616899-15-1P 616899-16-2P  
 (preparation of strobilurine analogs as acaricides, insecticides, and fungicides)  
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 6 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2003:396826 HCPLUS Full-text  
 DOCUMENT NUMBER: 138:401492  
 TITLE: Preparation of 2-chloro-4-[(3,3-dichloro-2-propenyl)oxy]phenol ethers as pest control agents  
 Tiebes, Joerg; Braun, Ralf; Dickhaut, Joachim;  
 Jakobi, Harald; Lindell, Stephen; Salgado, Vincent  
 L.; Wojtech, Eva; Jans, Daniela; Waibel, Jutta  
 Maria; Hempel, Waltraud; Wilhelm, Ronald  
 PATENT ASSIGNEE(S): Bayer CropScience SA, Fr.  
 SOURCE: PCT Int. Appl., 121 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003042147	A1	20030522	WO 2002-EP11980	20021026
			<--	
W: AE, AG, AL, AM, AU, AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, OM, PH, PL, RO, RU, SG, SI, TJ, TM, TN, TT, UA, US, UZ, VC, VN, YU, ZA				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10155385	A1	20030528	DE 2001-10155385	20011110
			<--	
EP 1446375	A1	20040818	EP 2002-787515	20021026

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK JP 2005509017 T 20050407 JP 2003-543985 20021026	<-- --> US 2004029886 A1 20040212 US 2002-289398 20021107
US 6949551 B2 20050927 DE 2001-10155385 A 20011110	<-- --> WO 2002-EP11980 W 20021026
PRIORITY APPLN. INFO.:	

OTHER SOURCE(S): MARPAT 138:401492

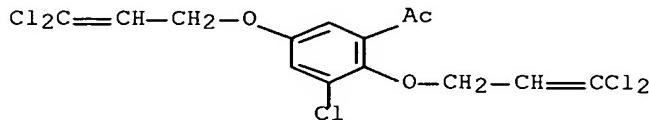
ED Entered STN: 23 May 2003

AB Title compds. I [R1, R2 = halo; Y = O, S, NH; X = O, S(O)r, NR5; r = 0-2; R5 = H, alkyl; Z = C-C bond (sic), O, S(O)r, etc.; R3 = H, halo, NO2, etc.; R4 = (un)substituted aryl, N-heteroaryl; A = OR6, SR6, NR7R8, etc.; B = (un)substituted alkylene, cycloalkylene; R6, R7, R8 = H, alkyl, alkenyl, etc.] were prepared. For example, Mitsunobu mediated coupling of phenol II, e.g., prepared from 3-acetyl-1-chloro-2-hydroxy-5-methoxybenzene in 3-steps, and 3-[(5-(trifluoromethyl)-2-pyridinyl)oxy]-1-propanol afforded dichloropropene III in 74% yield. In Heliothis virescens studies, 26-examples of compds. I, e.g., dichloropropene III, demonstrated 50% or greater parasite morality (eggs and possibly the larva) at 500 ppm.

IT 528886-32-0P, 3-Acetyl-2,5-bis-(3,3-dichloroprop-2-enyloxy)-1-chlorobenzene  
(intermediate; preparation of dihalogenpropenylphenol ethers as pest control agents)

RN 528886-32-0 HCPLUS

CN Ethanone, 1-[3-chloro-2,5-bis[(3,3-dichloro-2-propenyl)oxy]phenyl]-(9CI) (CA INDEX NAME)



IC ICM C07C043-225

ICS C07C205-34; C07C255-54; C07D213-643; C07D231-20; C07D239-34;  
A01N039-00; A01N037-34; A01N043-40; A01N043-50; A01N043-56CC 25-9 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 5

IT 528886-30-8P, 3-Acetyl-1-chloro-2,5-dihydroxybenzene  
**528886-32-0P**, 3-Acetyl-2,5-bis-(3,3-dichloroprop-2-enyloxy)-1-chlorobenzene **528886-34-2P**, 3-Acetyl-1-chloro-5-(3,3-dichloroprop-2-enyloxy)-2-hydroxybenzene 528886-35-3P,  
3-Chloro-2,5-dihydroxybenzoic acid methyl ester **528886-36-4P**  
, 3-Chloro-5-(3,3-dichloroprop-2-enyloxy)-2-hydroxybenzoic acid methyl ester 528886-37-5P, 5-Benzoyloxy-3-chloro-2-hydroxy-1-iodobenzene  
528886-38-6P 528886-39-7P 528886-40-0P **528886-41-1P**  
(intermediate; preparation of dihalogenpropenylphenol ethers as pest control agents)

IT **528885-94-1P 528886-00-2P**  
(target compound; preparation of dihalogenpropenylphenol ethers as pest control agents)

IT **528885-85-0P 528885-86-1P 528885-87-2P**

528885-88-3P 528885-89-4P 528885-90-7P  
 528885-91-8P 528885-92-9P 528885-93-0P  
 528885-96-3P 528885-98-5P 528885-99-6P  
 528886-01-3P 528886-02-4P 528886-03-5P  
 528886-04-6P 528886-05-7P 528886-06-8P  
 528886-07-9P 528886-08-0P 528886-09-1P  
 528886-10-4P 528886-11-5P 528886-12-6P 528886-13-7P  
 528886-14-8P 528886-15-9P 528886-16-0P 528886-17-1P  
 528886-18-2P 528886-19-3P 528886-20-6P 528886-21-7P  
 528886-22-8P 528886-23-9P 528886-24-0P  
 528886-25-1P 528886-26-2P 528886-27-3P 528886-42-2P  
 (target compound; preparation of dihalogenpropenoxyphenol ethers as pest control agents)

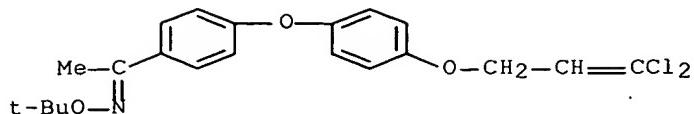
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 7 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2001:874390 HCAPLUS Full-text  
 DOCUMENT NUMBER: 136:19936  
 TITLE: Preparation of dihalopropenoxyphenylalkanone oximes as insecticides and acaricides  
 INVENTOR(S): Ikegami, Hiroshi; Suzuki, Masaya  
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 111 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001335550	A	20011204	JP 2000-156888 -->	20000526
PRIORITY APPLN. INFO.:			JP 2000-156888 -->	20000526

OTHER SOURCE(S): MARPAT 136:19936

ED Entered STN: 04 Dec 2001  
 AB Title compds. I (R1-R8 = H, halo, C1-4 alkyl, C1-4 alkoxy, C1-3 haloalkyl, etc.; R9 = H, C1-10 alkyl, C2-6 haloalkyl, C3-10 alkenyl, C3-6 haloalkenyl, etc.; R10 = C1-6 alkyl, C1-3 haloalkyl, (un)substituted Ph, etc.; Z = single bond, O, S(O)1, NR11; l = 0-2; A = C1-6 alkylene, C2-6 alkylidene; X = Cl, Br; Z = O, S(O)1, NR11, CR13R14; R12-R14 = H, C1-4 alkyl; l, m, n = 0-2) are prepared [4-[4-(3,3-Dichloro-2-propenoxy)phenoxy]phenoxy]acetone was reacted with O-tert-butyloxylamine hydrochloride in pyridine at room temperature for 2 h to give 84.3% [4-[4-(3,3-dichloro-2-propenoxy)phenoxy]phenoxy]acetone O-tert-butyloxime showing good ≥80% insecticidal activity against Adoxophyes orana fasciata.  
 IT 378187-42-9P  
 (preparation of dihalopropenoxyphenylalkanone oximes as insecticides and acaricides)  
 RN 378187-42-9 HCAPLUS  
 CN Ethanone, 1-[4-[4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]phenyl]-, O-(1,1-dimethylethyl)oxime (9CI) (CA INDEX NAME)



IC ICM C07C251-32  
 ICS A01N035-10; A01N041-10; C07C317-22; C07C323-20  
 CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5  
 IT 378187-35-0P 378187-37-2P 378187-39-4P **378187-42-9P**  
 378187-43-0P 378187-49-6P 378187-52-1P 378187-54-3P  
 378187-59-8P 378187-63-4P 378187-64-5P 378187-65-6P  
 378187-66-7P 378187-67-8P 378187-68-9P 378187-72-5P  
 378187-74-7P 378187-75-8P 378187-76-9P 378187-81-6P  
 378187-82-7P 378187-83-8P 378187-84-9P 378187-85-0P  
 378187-87-2P 378187-89-4P 378187-90-7P **378187-92-9P**  
 378187-93-0P 378187-94-1P 378187-96-3P 378187-98-5P  
 378188-00-2P 378188-02-4P 378188-04-6P 378188-06-8P  
 378188-07-9P 378188-08-0P 378188-09-1P 378188-10-4P  
 378188-14-8P 378188-16-0P 378188-18-2P **378188-20-6P**  
 378188-21-7P 378188-22-8P 378188-23-9P 378188-24-0P  
**378188-25-1P** **378188-26-2P** **378188-27-3P**  
 378188-28-4P **378188-29-5P** 378188-30-8P  
**378188-31-9P** 378188-32-0P 378188-33-1P  
 (preparation of dihalopropenoxyphenylalkanone oximes as insecticides  
 and acaricides)  
 IT 5535-70-6P 67963-68-2P, 1-Bromo-4-(tert-  
 butyldimethylsilyloxy)benzene 155828-47-0P 159191-56-7P,  
 4-(tert-Butyldimethylsilyloxy)phenylboronic acid 182568-54-3P  
 182568-55-4P 345200-79-5P 378187-34-9P 378187-38-3P  
 378187-40-7P 378187-41-8P 378187-44-1P 378187-45-2P  
 378187-46-3P 378187-47-4P 378187-48-5P **378187-50-9P**  
 378187-51-0P 378187-55-4P 378187-56-5P 378187-57-6P  
 378187-58-7P 378187-60-1P 378187-61-2P 378187-62-3P  
 378187-70-3P 378187-71-4P 378187-73-6P 378187-77-0P  
 378187-78-1P **378187-79-2P** 378187-80-5P 378187-86-1P  
 378187-88-3P **378187-91-8P** 378187-95-2P 378187-97-4P  
 378187-99-6P 378188-01-3P 378188-03-5P 378188-05-7P  
 378188-15-9P 378188-17-1P **378188-19-3P** 378188-34-2P  
 378188-35-3P 378188-36-4P 378188-37-5P 378188-38-6P  
 378188-39-7P 378188-40-0P 378188-41-1P  
 (preparation of dihalopropenoxyphenylalkanone oximes as insecticides  
 and acaricides)

L37 ANSWER 8 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2000:54210 HCAPLUS Full-text  
 DOCUMENT NUMBER: 132:89502  
 TITLE: Preparation of 3,3-dichloro-2-fluoroacrylic acid  
 derivatives as agrochemical microbicides and  
 insecticides  
 INVENTOR(S): Fischer, Reiner; Hagemann, Hermann; Wachendorff,  
 Ulrike; Erdelen, Christoph; Dutzmann, Stefan;  
 Haenssler, Gerd; Mauler-Machnik, Astrid  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Ger. Offen., 38 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19832445	A1	20000120	DE 1998-19832445	19980718
WO 2000003580	A2	20000127	WO 1999-EP4746	19990707
WO 2000003580	A3	20000420		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9949083	A1	20000207	AU 1999-49083	19990707

PRIORITY APPLN. INFO.:

DE 1998-19832445	A 19980718
WO 1999-EP4746	W 19990707

OTHER SOURCE(S): MARPAT 132:89502

ED Entered STN: 23 Jan 2000

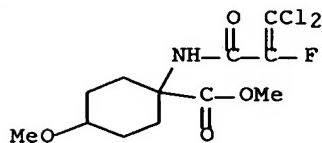
AB The 3,3-dichlor-2-fluoroacrylic acid derivs. Cl<sub>2</sub>C:CF(CO<sub>2</sub>A) (A = OH, OMe, OCH<sub>2</sub>Ph, NHCOMe<sub>2</sub>, NHCOMePh, CH<sub>2</sub>CH<sub>2</sub>OMe, CHMeCO<sub>2</sub>H, etc.) are prep'd as agrochem. microbicides and insecticides and enhancers for azole fungicides.

IT 254979-97-0P

(preparation as agrochem. microbicides and insecticides)

RN 254979-97-0 HCPLUS

CN Cyclohexanecarboxylic acid, 1-[(3,3-dichloro-2-fluoro-1-oxo-2-propenyl)amino]-4-methoxy-, methyl ester (9CI) (CA INDEX NAME)



IC ICM A01N037-18  
 ICS A01N043-50; A01N043-653  
 CC 5-4 (Agrochemical Bioregulators)  
 Section cross-reference(s): 25  
 IT 392-40-5P 433-62-5P 433-63-6P 254979-73-2P 254979-74-3P  
 254979-75-4P 254979-76-5P 254979-77-6P 254979-78-7P  
 254979-79-8P 254979-80-1P 254979-81-2P 254979-82-3P  
 254979-83-4P 254979-84-5P 254979-85-6P 254979-86-7P  
 254979-88-9P 254979-89-0P 254979-90-3P 254979-91-4P  
 254979-92-5P 254979-93-6P 254979-94-7P 254979-95-8P  
 254979-96-9P 254979-97-0P 254979-98-1P 254979-99-2P  
 254980-01-3P 254980-03-5P 254980-05-7P 254980-07-9P  
 (preparation as agrochem. microbicides and insecticides)

L37 ANSWER 9 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:18277 HCAPLUS Full-text

DOCUMENT NUMBER: 132:46272

TITLE: Synergistic insecticidal composition containing  
3,5-dichloro-1-(3,3-dichloro-2-propenoxy)-4-[3-  
(5-trifluoromethylpyridin-2-yloxy)propoxy]benzene  
and a pyrethroid.

INVENTOR(S): Saito, Shigeru

PATENT ASSIGNEE(S): Sumitomo Chemical Company Limited, Japan

SOURCE: Fr. Demande, 18 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2779032	A1	19991203	FR 1999-6937 -->	19990602
FR 2779032	B1	20010209		
JP 2000053508	A	20000222	JP 1999-109644 -->	19990416
IL 129757	A	20030731	IL 1999-129757 -->	19990504
US 6159991	A	20001212	US 1999-306453 -->	19990506
AU 9926987	A	19991209	AU 1999-26987 -->	19990507
AU 745189	B2	20020314		
ZA 9903197	A	19991110	ZA 1999-3197 -->	19990510
GR 1003324	B2	20000224	GR 1999-100153 -->	19990510
EG 22705	A	20030730	EG 1999-593 -->	19990523
MX 9904788	A	20000331	MX 1999-4788 -->	19990524
KR 2000005737	A	20000125	KR 1999-19499 -->	19990528
ES 2157797	A1	20010816	ES 1999-1171 -->	19990528
ES 2157797	B1	20020316		
BR 9901761	A	20000502	BR 1999-1761 -->	19990601
IT 1307041	B1	20011023	IT 1999-T0463 -->	19990601
CN 1238125	A	19991215	CN 1999-106969 -->	19990602
PRIORITY APPLN. INFO.:			JP 1998-152736 -->	A 19980602

ED Entered STN: 10 Jan 2000

AB Synergistic insecticidal composition contain 3,5-dichloro-1-(3,3-dichloro-2-propenoxy)-4-[3-(5-trifluoromethylpyridin-2-yloxy)propoxy]benzene and a pyrethrinoid, such as esfenvalerate, fenvalerate, flucythrinate, etc.

IT 252936-48-4

(synergistic insecticidal composition)

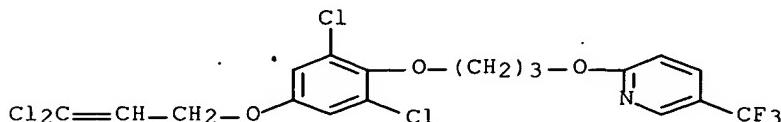
RN 252936-48-4 HCPLUS

CN Benzeneacetic acid, 4-chloro- $\alpha$ -(1-methylethyl)-,

cyano(3-phenoxyphenyl)methyl ester, mixt. with 2-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]-5-(trifluoromethyl)pyridine (9CI) (CA INDEX NAME)

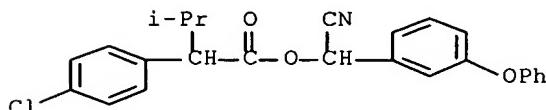
CM 1

CRN 179101-81-6  
CMF C18 H14 Cl4 F3 N O3



CM 2

CRN 51630-58-1  
CMF C25 H22 Cl N O3



IC ICM A01N053-00  
ICI A01N053-00, A01N043-40  
CC 5-4 (Agrochemical Bioregulators)  
IT 252936-48-4 252936-49-5 252936-50-8 252936-51-9  
252936-52-0 252936-53-1 252936-54-2 252936-55-3 252936-56-4  
252936-57-5 252936-58-6  
(synergistic insecticidal composition)

L37 ANSWER 10 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1999:708444 HCPLUS Full-text  
DOCUMENT NUMBER: 131:310455  
TITLE: Preparation of aroylaminoacetonitriles as agricultural and horticultural insecticides  
INVENTOR(S): Andoh, Nobuharu; Sanpei, Osamu; Sakata, Kazuyuki  
PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 63 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 953565	A2	19991103	EP 1999-107461	19990428 <--

EP 953565	A3	20021204		
EP 953565	B1	20040908		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6239077	B1	20010529	US 1999-295319 <--	19990421
TW 585849	B	20040501	TW 1999-88106732 <--	19990427
EP 1445251	A1	20040811	EP 2004-10346 <--	19990428
EP 1445251	B1	20061227		
R: CH, DE, FR, GB, IT, LI				
CN 1234177	A	19991110	CN 1999-105289 <--	19990430
CN 1132516	B	20031231		
AU 9926027	A	19991111	AU 1999-26027 <--	19990430
AU 752112	B2	20020905		
JP 2000026392	A	20000125	JP 1999-124560 <--	19990430
PRIORITY APPLN. INFO.:			JP 1998-137806 <--	A 19980501
			EP 1999-107461 <--	A3 19990428

OTHER SOURCE(S): MARPAT 131:310455

ED Entered STN: 05 Nov 1999

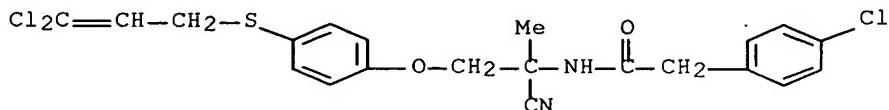
AB Ar1QdCONR3C(CN)R4(CR5R6)aW(CR7R8)bAr2 [I; Ar1, Ar2 = (substituted) Ph, PhO, pyridyl, pyridyloxy, naphthyl; Q = CR1R2; R1, R2 = H, halo, (halo)alkyl, (halo)alkoxy, (substituted) cycloalkyl; R1R2 = (substituted) C2-6 alkylene, CH:CH, C.tplbond.C; d = 0, 1; R3 = H, (halo)alkyl; R4-R8 = H, halo, (halo)alkyl; W = O, S, SO2, NR9; R9 = H, alkyl; a, b = 0-4], were prepared Thus, 4-chlorophenol, bromoacetaldehyde di-Me acetal, K2CO3, and cat. NaI were refluxed 3 h in DMF to give 4-chlorophenoxyacetaldehyde di-Me acetal. This was refluxed with aqueous HCl in acetone to give crude 4-chlorophenoxyacetaldehyde, which was stirred with NaCN and NH4Cl in aqueous NH3 to give a residue. This was stirred with 4-chlorophenylacetyl chloride and Et3N in THF to give I (Ar1, Ar2 = 4-ClC6H4; R1-R8 = H; W = O; a, d = 1; b = 0). Numerous I at 500 ppm gave 100% kill of Plutella xylostella on cabbage seedlings.

IT 247198-26-1P

(preparation of aroylaminoacetonitriles as agricultural and horticultural insecticides)

RN 247198-26-1 HCPLUS

CN Benzeneacetamide, 4-chloro-N-[1-cyano-2-[4-[(3,3-dichloro-2-propenyl)thio]phenoxy]-1-methylethyl]- (9CI) (CA INDEX NAME)



IC ICM C07C255-26

ICS A01N037-34; C07C317-14

CC 25-20 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 5

IT 247197-13-3P 247197-14-4P 247197-15-5P 247197-16-6P

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247199-70-8P			

## (preparation of aroylaminoacetonitriles as agricultural and horticultural insecticides)

L37 ANSWER 11 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1998:682354 HCAPLUS Full-text  
 DOCUMENT NUMBER: 129:316033  
 TITLE: Preparation of oximes as insecticidal and acaricidal agents  
 INVENTOR(S): Ikegami, Hiroshi; Izumi, Keiichi; Suzuki, Masaya;  
 Sakamoto, Noriyasu; Saito, Shigeru  
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan  
 SOURCE: PCT Int. Appl., 735 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9845254	A2	19981015	WO 1998-JP1342 ----- W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, KE, KG, KR, KZ, LC, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG	19980326 ----- <--
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EP 975586	A2	20000202	EP 1998-911012 ----- ES 2234101	19980326 ----- <--
EP 975586	B1	20041201		
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JP 11152258	A	19990608	JP 1998-246508 ----- US 6437184	19980727 ----- <--
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OTHER SOURCE(S): MARPAT 129:316033

ED Entered STN: 28 Oct 1998

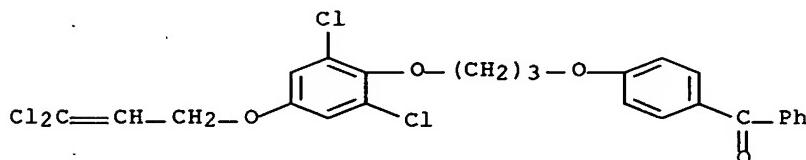
AB The title compds. [I; R1-R3 = halo, C1-3 alkyl, C1-3 haloalkyl, etc.; R4 = 3,3-dihalo-2-propenyl; a = 0-2; Y = O, S, NH; Z = O, S, NR5 (wherein R5 = H, Ac, C1-3 alkyl); X = R6ON:C(R7)A1-, R8C(R9):NOA2- (R6 = H, C1-8 alkyl, C2-6 haloalkyl, etc.; R7 = H, C1-6 alkyl, C1-3 haloalkyl, etc.; R8, R9 = H, C1-11 alkyl, C1-6 haloalkyl, etc.; A1 = (CR19:CR20)h(CR21R22)i, (CR19:CR20)h(CR21R22)jQ1(CR23R24)k, etc.; R19-R24 = H, C1-3 alkyl, CF3; h = 0-1; i = 1-6; j = 1-3; k = 2-8; Q1 = O, S, S(O), S(O)2, etc.; A2 = (CR19R20)jC.tplbond.C(CR23R24)m, (CR19R20)hE(CR23R24)p, etc.; E = C5-6 cycloalkylene)]; useful as insecticidal/acaricidal agents, were prepared Thus, reaction of 4-[2,6-dichloro-4-(3,3-dichloro-2-propenyl)phenoxy]butyloxyacetalde hyde with O-(3,3-dichloro-2-propenyl)hydroxylamine hydrochloride in pyridine afforded 74% II which showed a mortality of 80% or higher against Spodoptera litura and Plutella xylostella.

IT 178044-55-8P

(preparation of oximes as insecticidal and acaricidal agents)

RN 178044-55-8 HCPLUS

CN Methanone, [4-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]propoxy]phenoxy]phenyl- (9CI) (CA INDEX NAME)



IC ICM C07C251-00

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 5

IT 178044-55-8P 214701-28-7P 214704-50-4P 214704-51-5P  
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214704-55-9P 214704-56-0P 214704-58-2P  
214704-59-3P 214704-60-6P 214704-61-7P  
214704-63-9P 214704-67-3P 214705-84-7P

(preparation of oximes as insecticidal and acaricidal agents)

IT 179101-95-2P 214700-17-1P 214700-19-3P 214700-22-8P  
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214700-96-6P 214700-99-9P 214701-01-6P 214701-03-8P

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214701-42-5P	214701-43-6P	214701-44-7P	214701-45-8P
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     (preparation of oximes as insecticidal and acaricidal agents)  
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 194722-49-1P 194722-53-7P 194722-55-9P 194722-56-0P  
 194722-57-1P 194722-58-2P 214693-05-7P 214705-47-2P  
 214705-48-3P 214705-49-4P 214705-50-7P **214705-51-8P**  
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**214705-55-2P 214705-56-3P 214705-57-4P**  
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214705-79-0P 214705-80-3P 214705-81-4P 214705-82-5P

214705-83-6P

(preparation of oximes as insecticidal and acaricidal agents)

L37 ANSWER 12 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1997:533604 HCPLUS Full-text  
 DOCUMENT NUMBER: 127:205343  
 TITLE: Dihalopropene compounds, their use as  
           insecticides/acaricides, and intermediates for  
           their production  
 INVENTOR(S): Ikegami, Hiroshi; Izumi, Keiichi; Suzuki, Masaya;  
               Sakamoto, Noriyasu; Takano, Hirotaka  
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan  
 SOURCE: PCT Int. Appl., 228 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9728112	A1	19970807	WO 1997-JP141	19970123
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RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9713199	A	19970822	AU 1997-13199	19970123
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AU 709705	B2	19990902		
EP 888270	A1	19990107	EP 1997-900759	19970123
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EP 888270	B1	20020417		
R: CH, DE, ES, FR, GB, IT, LI				
CN 1209798	A	19990303	CN 1997-191944	19970123
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JP 10204017	A	19980804	JP 1997-28557	19970127
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JP 3834911	B2	20061018		
IN 1997MA00173	A	20050304	IN 1997-MA173	19970129
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ZA 9700724	A	19971104	ZA 1997-724	19970130
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AU 9863564	A	19980702	AU 1998-63564	19980423
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AU 702043	B2	19990211		
US 6140274	A	20001031	US 1998-91082	19980612
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PRIORITY APPLN. INFO.:			JP 1996-14120	A 19960130
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			JP 1996-330443	A 19961125
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			WO 1997-JP141	W 19970123
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OTHER SOURCE(S): MARPAT 127:205343

ED Entered STN: 21 Aug 1997

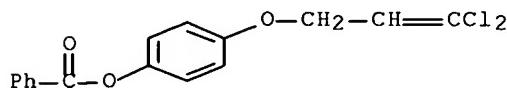
AB Dihalopropene compds. I [R1 = substituted alkyl; R2, R3, R4 = halo, alkyl, haloalkyl, alkoxy, haloalkoxy, NO<sub>2</sub>, cyano; A = O, S(O)m, NR14; R14 = H, alkyl; t = 0-2; B = substituted alkylene, alkenylene, alkynylene; n = 0-2; X's = halo; Y = O, S, NH; Z = O, S, NR25; R25 = H, Ac, alkyl] are disclosed. I are useful as active ingredients of insecticidal/acaricidal agents. For instance, Mitsunobu etherification of 4-(3,3-dichloro-2-propenoxy)butanol with 2,6-dichloro-4-(3,3-dichloro-2-propenoxy)phenol using DIAD and PPh<sub>3</sub> in THF gave 73% title compound II. Applied to cabbages as a 200-ppm emulsified solution, II gave ≥ 80% mortality of larval *Plutella xylostella*. Several compds. I were also active against the acarid *Tetranychus urticae*.

IT 178043-36-2P

(intermediate; preparation of phenoxydihalopropene compds. as insecticides and acaricides)

RN 178043-36-2 HCPLUS

CN Phenol, 4-[(3,3-dichloro-2-propenyl)oxy]-, benzoate (9CI) (CA INDEX NAME)



IC ICM C07C043-20

ICS C07C323-20; C07C217-84; C07C321-28; C07C323-36; C07C211-51;  
A01N031-16; A01N033-06; A01N033-08

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 5

IT 1687-64-5P 5501-49-5P 7564-39-8P 77237-42-4P 77243-52-8P

178043-12-4P 178043-36-2P 178043-37-3P 178043-46-4P

184344-91-0P 184344-92-1P 184344-93-2P 184344-94-3P

194722-45-7P 194722-46-8P 194722-47-9P 194722-48-0P

194722-49-1P 194722-50-4P 194722-51-5P 194722-52-6P

194722-53-7P 194722-54-8P 194722-55-9P 194722-56-0P

194722-57-1P 194722-58-2P 194722-59-3P

(intermediate; preparation of phenoxydihalopropene compds. as insecticides and acaricides)

L37 ANSWER 13 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:513623 HCPLUS Full-text

DOCUMENT NUMBER: 127:190529

TITLE: Dihalopropene compounds, their use as insecticides/acaricides, and intermediates for their production

INVENTOR(S): Ikegami, Hiroshi; Hirose, Taro; Suzuki, Masaya; Izumi, Keiichi; Sakamoto, Noriyasu; Takano, Hirotaka; Takada, Yoji

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Ltd., Japan

SOURCE: PCT Int. Appl., 139 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

WO 9727173	A2	19970731	WO 1997-JP76 <--	19970117
WO 9727173	A3	19980402		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9713992	A	19970820	AU 1997-13992 <--	19970117
JP 09263572	A	19971007	JP 1997-8040 <--	19970120
IN 1997MA00121	A	20050304	IN 1997-MA121 <--	19970122
ZA 9700559	A	19970730	ZA 1997-559 <--	19970123
PRIORITY APPLN. INFO.:			JP 1996-10424 <--	A 19960124
			WO 1997-JP76 <--	W 19970117

OTHER SOURCE(S): MARPAT 127:190529

ED Entered STN: 13 Aug 1997

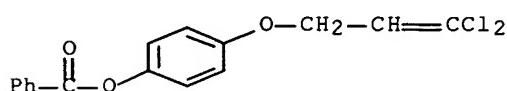
AB Dihalopropene compds. I [wherein R, R<sub>2</sub>, R<sub>3</sub> = halo, haloalkyl, alkyl; R<sub>4</sub> = H, alkyl; R<sub>5</sub>, R<sub>6</sub> = H, alkyl, CF<sub>3</sub>; R<sub>7</sub> = halo, alkyl, CF<sub>3</sub>; R<sub>8</sub>, R<sub>9</sub> = H, alk(en/yn)yl, haloalk(en/yn)yl, etc.; Q<sub>1</sub> = bond or various C and/or heteroat. linkage groups; Q<sub>2</sub> = bond, O, NR<sub>14</sub>; R<sub>14</sub> = H, alkyl; X = Cl, Br; Y = O, NH, S; Z = O, S, NR<sub>15</sub>; R<sub>15</sub> = H, alkyl; n = 0-4; p = 0-6; and q = 0-2], which have excellent insecticidal/acaricidal activity, are disclosed. For instance, etherification of 3,5-dichloro-4-(4-bromobutoxy)-1-(3,3-dichloro-2-propenyl)benzene (preparation given) with 4-(1-piperidinylcarbonyl)phenol using K<sub>2</sub>CO<sub>3</sub> in DMF at room temperature gave title compound II. At 500 ppm in the diet of larval Spodoptera litura or Plutella xylostella, II gave 80% mortality in 4-6 days. I also gave ≥ 60% mortality of Tetranychus urticae upon spray application at 500 ppm.

IT 178043-36-2P

(intermediate; preparation of dihalopropene compds. as insecticides and acaricides)

RN 178043-36-2 HCPLUS

CN Phenol, 4-[(3,3-dichloro-2-propenyl)oxy]-, benzoate (9CI) (CA INDEX NAME)



IC ICM C07C233-64

ICS C07C235-42; C07C237-28; C07C271-40; C07C275-28; C07C333-02

CC 25-21 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5, 27, 28

IT 1486-50-6P, 4-(Benzyl)benzoyl chloride 1486-51-7P,  
4-(Benzyl)benzoic acid 1687-64-5P, 2-Ethyl-6-methylphenol

7564-39-8P, 4-Bromo-2-ethyl-6-methylphenol 32122-11-5P, Methyl  
 4-(benzyloxy)benzoate 155916-12-4P, 2,6-Dichloro-4-(benzyloxy)phenol  
 178043-12-4P **178043-36-2P** 178043-37-3P 178043-45-3P  
 178043-46-4P **178046-27-0P** 179101-67-8P 184344-91-0P  
 184344-92-1P, 3-Ethyl-4-(benzyloxy)-5-methylphenol 184344-93-2P  
 184344-94-3P **194225-04-2P** **194225-05-3P**  
**194225-06-4P** 194225-07-5P 194225-08-6P 194225-09-7P  
 194225-10-0P 194225-11-1P **194225-14-4P**  
 (intermediate; preparation of dihalopropene compds. as insecticides and  
 acaricides)  
 IT **194224-91-4P** **194224-92-5P** **194224-93-6P**  
**194224-94-7P** **194224-95-8P** **194224-96-9P**  
**194224-97-0P** **194224-98-1P** **194224-99-2P**  
**194225-00-8P** **194225-01-9P** **194225-02-0P**  
**194225-03-1P**  
 (preparation of dihalopropene compds. as insecticides and acaricides)

L37 ANSWER 14 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1997:509102 HCAPLUS Full-text

DOCUMENT NUMBER: 127:220458

TITLE: Preparation of (3,3-dihalo-2-propenyl)benzene derivatives and their intermediates and insecticides and acaricides containing the derivatives

INVENTOR(S): Izumi, Keiichi; Ikegami, Hiroshi; Suzuki, Masaya; Sakamoto, Noriyasu; Takano, Masataka

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 135 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09194418	A	19970729	JP 1996-25789 -->	19960118
PRIORITY APPLN. INFO.:			JP 1996-25789 -->	19960118

OTHER SOURCE(S): MARPAT 127:220458

ED Entered STN: 11 Aug 1997

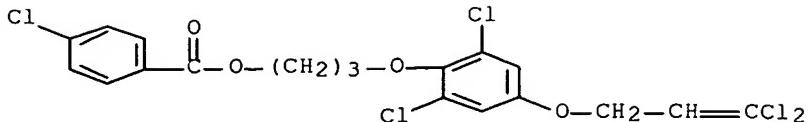
AB The title derivs. I [R = ZR<sub>1</sub>; R<sub>1</sub> = aliphatic group, alicyclic group which may be substituted with halo or more complex substituents containing aromatic or heterocycll group, etc.; X = O, S: X = Cl, Br; R<sub>2-4</sub> = H, halo, C<sub>1-3</sub> (halo)alkyl; ≥1 of R<sub>2-4</sub> = H] (II) and their intermediates I (R = OH) are prepared Insecticides and acaricides containing II are also claimed. 4-(4-Bromophenoxy)-2,6-dichloro-1-(3,3-dichloro-2-propenyl)benzene (preparation given) showed ≥80% insecticidal activity against Spodoptera litura. Formulations of II including fumigants, mosquito coils, etc. were also given.

IT **178044-94-5P**

(preparation of (dihalopropenyl)benzenes as insecticides and acaricides and their intermediates)

RN 178044-94-5 HCAPLUS

CN Benzoic acid, 4-chloro-, 3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propyl ester (9CI) (CA INDEX NAME)



IC ICM C07C043-225  
 ICS A01N031-16; A01N037-10; A01N037-14; A01N037-20; A01N037-22;  
 A01N037-24; A01N043-30; A01N043-32; A01N043-40; C07C043-23;  
 C07C069-76; C07C233-15; C07C233-25; C07C235-46; C07C237-30;  
 C07C237-42; C07C317-22; C07C323-11; C07C323-20  
 CC 25-3 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5  
 IT 178044-94-5P 179101-81-6P 184343-87-1P  
 194939-85-0P 194939-87-2P 194939-89-4P 194939-91-8P  
 (preparation of (dihalopropenyloxy)benzenes as insecticides and  
 acaricides and their intermediates)  
 IT 2444-19-1P 2444-21-5P 178043-15-7P 178043-19-1P 194939-90-7P  
 194940-40-4P 194940-41-5P 194940-42-6P  
 (preparation of (dihalopropenyloxy)benzenes as insecticides and  
 acaricides and their intermediates)

L37 ANSWER 15 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1997:509101 HCPLUS Full-text  
 DOCUMENT NUMBER: 127:186984  
 TITLE: Preparation of (3,3-dihalo-2-propenyloxy)benzene  
 derivatives and their intermediates and  
 insecticides and acaricides containing the  
 derivatives  
 INVENTOR(S): Izumi, Keiichi; Ikegami, Hiroshi; Suzuki, Masaya;  
 Sakamoto, Noriyasu; Takano, Masataka  
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 107 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

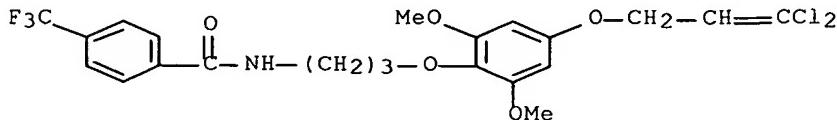
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09194417	A	19970729	JP 1996-3888 -->	19960112
PRIORITY APPLN. INFO.:			JP 1996-3888 -->	19960112

OTHER SOURCE(S): MARPAT 127:186984

ED Entered STN: 11 Aug 1997

AB The title derivs. I [R = ZR<sub>1</sub>; R<sub>1</sub> = aliphatic group which may substituted with halo or more complex group containing aromatic or heterocyclic group, etc. (Markush structures for these substituents given); Z = O, S; X = Cl, Br; R<sub>2</sub>= C1-3 (halo)alkoxy, NO<sub>2</sub>, cyano; Y = C1-3 alkyl, halo; n = 1-4; m = 0-3; n + m ≤ 4] (II) and their intermediates I (R = OH) are prepared. Insecticides and acaricides containing II are also claimed. 1-(3,3-Dichloro-2-propenyloxy)-3,5-dimethoxy-4-[3-[4-(trifluoromethoxy)phenoxy]propyloxy]benzene, prepared by treatment of 3,5-Dimethoxy-4-[3-[4-(trifluoromethoxy)phenoxy]propyloxy]phenol (preparation given) with Cl<sub>2</sub>C:CHCH<sub>2</sub>Cl, controlled house flies. Formulations of II were also given.

IT 194286-23-2P  
 (preparation of (dihalopropenyl)benzene derivs. as insecticides and acaricides and their intermediates)  
 RN 194286-23-2 HCPLUS  
 CN Benzamide, N-[3-[4-[(3,3-dichloro-2-propenyl)oxy]-2,6-dimethoxyphenoxy]propyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)



IC ICM C07C043-225  
 ICS A01N031-16; A01N033-22; C07C043-23; C07C205-37; C07C233-69;  
 C07D213-64  
 CC 5-4 (Agrochemical Bioregulators)  
 Section cross-reference(s): 25  
 IT 194286-13-0P 194286-14-1P 194286-19-6P 194286-23-2P  
 194286-24-3P 194286-25-4P 194286-28-7P  
 (preparation of (dihalopropenyl)benzene derivs. as insecticides and acaricides and their intermediates)  
 IT 125106-77-6P 178043-37-3P 194286-12-9P 194286-15-2P  
 194286-16-3P 194286-17-4P 194286-26-5P 194286-38-9P  
 194286-39-0P 194286-40-3P 194286-41-4P 194286-43-6P  
 194286-44-7P  
 (preparation of (dihalopropenyl)benzene derivs. as insecticides and acaricides and their intermediates)

L37 ANSWER 16 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1996:751632 HCPLUS Full-text  
 DOCUMENT NUMBER: 126:31173  
 TITLE: Preparation of phenyl-substituted dihalopropene insecticides  
 INVENTOR(S): Matsuo, Sanshiro; Hirose, Taro; Izumi, Keiichi;  
 Suzuki, Masaya; Sakamoto, Noriyasu; Tsushima,  
 Kazunori; Saito, Shigeru; Takano, Hirotaka  
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan  
 SOURCE: PCT Int. Appl., 179 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9633160	A1	19961024	WO 1996-JP989	19960411
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RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML				
JP 09249610	A	19970922	JP 1996-84045	19960405

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JP 3814866	B2	20060830	AU 1996-52878	19960411
AU 9652878	A	19961107		
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EP 824514	A1	19980225	EP 1996-909336	19960411
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EP 824514	B1	20000906		
R: CH, DE, FR, GB, IT, LI				
CN 1187809	A	19980715	CN 1996-194792	19960411
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ZA 9602968	A	19961022	ZA 1996-2968	19960415
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IL 117943	A	20001206	IL 1996-117943	19960417
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IL 130542	A	20001206	IL 1996-130542	19960417
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US 5952386	A	19990914	US 1997-913879	19970924
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US 6028100	A	20000222	US 1998-153859	19980916
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US 6214835	B1	20010410	US 1999-320281	19990602
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PRIORITY APPLN. INFO.:			JP 1995-92868	A 19950418
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			WO 1996-JP989	W 19960411
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## OTHER SOURCE(S): MARPAT 126:31173

ED Entered STN: 23 Dec 1996

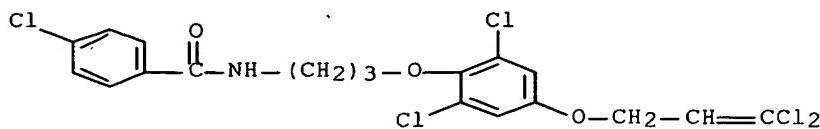
AB The title compds. [I; L = CO, CS, (un)substituted CONH, etc.; R1 = (un)substituted alkyl, (un)substituted alkenyl, (un)substituted cycloalkyl, etc.; R2-R4 = halogen, haloalkyl, alkyl; R5-R7 = H, alkyl, CF<sub>3</sub>; X = Cl, Br; Y = O, NH, S; Z = O, S. (un)substituted NH; m = 0-4; n = 0-2], effective for the control of noxious insects, are prepared and I-containing formulations presented. Thus, 3,5-dichloro-4-(3-aminopropoxy)-1-(3,3-dichloro-2-propenoxy)benzene was amidated with 4-chlorobenzoyl chloride, producing 3,5-dichloro-4-[3-(4-chlorobenzamido)propoxy]-1-(3,3-dichloro-2-propenoxy)benzene (m.p. 95.1°), which demonstrated an 80% control of *Plutella xylostella* at 25 ppm.

IT 184343-86-0P

(preparation of phenyl-substituted dihalopropene insecticides)

RN 184343-86-0 HCPLUS

CN Benzamide, 4-chloro-N-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propyl]- (9CI) (CA INDEX NAME)



IC ICM C07C233-69  
 ICS C07C233-22; C07C235-24; C07C235-06; C07C311-29; C07C275-34;  
 C07C271-28; C07C271-16; C07D213-81; C07C235-48; C07C255-57;  
 C07D213-82; C07D333-38; C07D307-68; C07D209-42; A01N037-20;  
 A01N037-22; A01N047-30; A01N037-34; A01N047-12

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5

IT 184343-86-0P 184343-87-1P 184343-88-2P  
 184343-89-3P 184343-90-6P 184343-91-7P  
 184343-92-8P 184343-93-9P 184343-94-0P  
 184343-95-1P 184343-96-2P 184343-97-3P  
 184343-98-4P 184343-99-5P 184344-00-1P  
 184344-01-2P 184344-02-3P 184344-03-4P  
 184344-04-5P 184344-05-6P 184344-06-7P  
 184344-07-8P 184344-08-9P 184344-09-0P  
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 184344-76-1P 184344-77-2P 184344-78-3P 184344-79-4P  
 184344-80-7P 184344-81-8P 184344-82-9P 184344-83-0P  
 (preparation of phenyl-substituted dihalopropene insecticides)

IT 1687-64-5P, 2-Ethyl-6-methylphenol 7564-39-8P 178043-12-4P  
**178043-36-2P 178043-37-3P 178043-45-3P**  
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 184344-91-0P 184344-92-1P 184344-93-2P 184344-94-3P  
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 184345-41-3P 184345-44-6P 184345-45-7P 184345-46-8P  
 184345-47-9P  
 (preparation of phenyl-substituted dihalopropene insecticides)

TITLE: Preparation of dihalopropene insecticides and  
 acaricides  
 INVENTOR(S): Sakamoto, Noriyasu; Matsuo, Sanshiro; Suzuki,  
 Masaya; Hirose, Taro; Tsushima, Kazunori; Umeda,  
 Kimitoshi  
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan  
 SOURCE: PCT Int. Appl., 218 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9611909	A1	19960425	WO 1995-JP2080	19951012 ---
W: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
IN 1995MA01293	A	20050225	IN 1995-MA1293	19951009 ---
CA 2202495	A1	19960425	CA 1995-2202495	19951012 ---
AU 9536728	A	19960506	AU 1995-36728	19951012 ---
AU 692930	B2	19980618		
EP 785923	A1	19970730	EP 1995-934276	19951012 ---
EP 785923	B1	20000405		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
CN 1169147	A	19971231	CN 1995-196682	19951012 ---
CN 1088061	B	20020724		
HU 77014	A2	19980302	HU 1997-2014	19951012 ---
BR 9509315	A	19980526	BR 1995-9315	19951012 ---
AT 191477	T	20000415	AT 1995-934276	19951012 ---
ES 2145301	T3	20000701	ES 1995-934276	19951012 ---
IL 130672	A	20000716	IL 1995-130672	19951012 ---
IL 130674	A	20000716	IL 1995-130674	19951012 ---
IL 115597	A	20000726	IL 1995-115597	19951012 ---
IL 130673	A	20000726	IL 1995-130673	19951012 ---
RU 2158260	C2	20001027	RU 1997-107997	19951012 ---
CN 1654455	A	20050817	CN 2005-10054414	19951012 ---
ZA 9508652	A	19960514	ZA 1995-8652	19951013 ---

JP 09151172	A	19970610	JP 1995-265986 <--	19951013
JP 3106928	B2	20001106		
EG 21672	A	20020227	EG 1995-854 <--	19951014
US 5922880	A	19990713	US 1997-809865 <--	19970520
US 6071861	A	20000606	US 1998-203362 <--	19981202
US 6268313	B1	20010731	US 2000-521119 <--	20000307
GR 3033311	T3	20000929	GR 2000-400994 <--	20000426
JP 2000355582	A	20001226	JP 2000-161945 <--	20000531
JP 3835125	B2	20061018		
CN 1318535	A	20011024	CN 2001-116628 <--	20010412
US 6376428	B1	20020423	US 2001-864227 <--	20010525
US 2003073847	A1	20030417	US 2002-86888 <--	20020304
US 6589914	B2	20030708		
PRIORITY APPLN. INFO.:			JP 1994-249296 <--	A 19941014
			JP 1995-91187 <--	A 19950417
			JP 1995-247922 <--	A 19950926
			IL 1995-115597 <--	A3 19951012
			WO 1995-JP2080 <--	W 19951012
			JP 1995-265986 <--	A3 19951013
			US 1997-809865 <--	B3 19970520
			US 1998-203362 <--	A3 19981202
			US 2000-521119 <--	A3 20000307
			CN 2001-116628 <--	A3 20010412
			US 2001-864227 <--	A3 20010525

OTHER SOURCE(S): MARPAT 125:114466

ED Entered STN: 03 Aug 1996

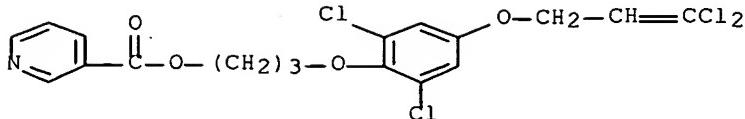
AB The title compds. [I; R1 = (un)substituted alkyl, (un)substituted alkenyl, etc; R2, R3, R10 = halogen, haloalkyl, alkyl; X = Cl, Br; Y = O, S, NH; Z = O, S, (un)substituted NH; t = 0-2], useful for the control of noxious insects, mites, and ticks, are prepared and I-containing formulations presented. Thus, 4-(3,3-dichloro-2-propenyl)-2,6-dichlorophenol was coupled with 2-(2-hydroxyethyl)thiophene in the presence of PPh<sub>3</sub> and diisopropyl azodicarboxylate, producing insecticidal 3,5-dichloro-4-[2-(2-thienyl)ethoxy]-1-[3,3-dichloro-2-propenyl]benzene in 62% yield.

IT 179101-99-6P

(preparation of dihalopropene insecticides and acaricides)

RN 179101-99-6 HCPLUS

CN 3-Pyridinecarboxylic acid, 3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propyl ester (9CI) (CA INDEX NAME)



IC ICM C07D213-64  
 ICS C07D319-20; C07D317-22; C07D231-12; C07D333-16; C07D307-42;  
 C07D277-24; A01N043-00; C07D233-68; C07D307-46; C07D261-20  
 CC 27-8 (Heterocyclic Compounds (One Hetero Atom))  
 Section cross-reference(s): 5, 25  
 IT 178043-44-2P 178043-45-3P 179101-60-1P 179101-61-2P  
 179101-72-5P 179101-73-6P 179101-74-7P 179101-75-8P  
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 179101-80-5P 179101-81-6P 179101-82-7P 179101-83-8P  
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 (preparation of dihalopropene insecticides and acaricides)  
 IT 155916-12-4P 178043-28-2P **178043-36-2P** 178043-37-3P  
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 179101-68-9P 179101-69-0P 179101-70-3P 179101-71-4P  
 (preparation of dihalopropene insecticides and acaricides)

L37 ANSWER 18 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1996:446594 HCPLUS Full-text  
 DOCUMENT NUMBER: 125:114287  
 TITLE: Preparation of 1-(2-propenyl)benzene derivatives as insecticides and acaricides  
 INVENTOR(S): Matsuo, Sanshiro; Suzuki, Masaya; Sakamoto, Noryasu; Tsushima, Kazuhiro; Umeda, Kimitoshi  
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 58 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08109156	A	19960430	JP 1994-245990 -->	19941012
PRIORITY APPLN. INFO.:			JP 1994-245990 -->	19941012

OTHER SOURCE(S): MARPAT 125:114287

ED Entered STN: 30 Jul 1996

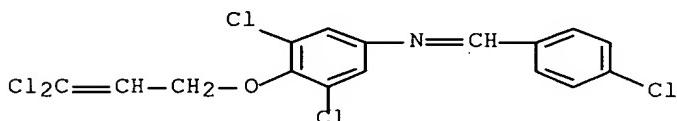
AB The title compds. [I; A = R1R10CH, Q, Q1; wherein R10 = H, C1-3 alkyl; R1 = H, halo, C1-10 alkyl, C1-5 haloalkyl, C2-10 alkenyl, C2-6 haloalkenyl, C3-9 (halo)alkynyl, C1-7 alkoxy, C1-3 alkylthio, C2-7 alkoxyalkyl or alkylthioalkyl, etc.; or R1 and R10 are bonded together at the termini to form (un)substituted, (CH<sub>2</sub>)<sub>n</sub> (n = 2-5), CH:CHCH<sub>2</sub>CH<sub>2</sub>, CH<sub>2</sub>CH:CHCH<sub>2</sub>, CH:CH(CH<sub>2</sub>)<sub>3</sub>, CH<sub>2</sub>CH:CHCH<sub>2</sub>CH<sub>2</sub>; R6 = halo, cyano, NO<sub>2</sub>, C1-8 alkyl, C1-3 haloalkyl, C1-7 alkoxy, C1-3 haloalkoxy, etc.; or adjacent 2 R6 are linked together to form (CH<sub>2</sub>)<sub>3</sub>, (CH<sub>2</sub>)<sub>4</sub>, methylenedioxy, or ethylenedioxy; R7, R8, R11 = H, C1-3 alkyl, CF<sub>3</sub>; Z = O, S, NH, C1-3 alkylimino; l = 0-5; p = 0-6; q = 1-6; R2, R3, R4 = H, halo, C1-3 alkyl, or CF<sub>3</sub>, provided that R2, R3, and R4 are not simultaneously H; R5 = H, C1-3 alkyl; X = Cl, Br; Y = O, NH, S] are prepared. Thus, 3,5-dichloro-4-hydroxy-N-(4-chlorobenzylidene)aniline 2.00, 1,1,3-trichloropropene 0.96, and K<sub>2</sub>CO<sub>3</sub> 1.02 g were stirred in DMF at room temperature for 12 h to give 76% 3,5-dichloro-4-(3,3-dichloro-2-propenyl)-N-(4-chlorobenzylidene)aniline, which was reduced by NaBH<sub>4</sub> in EtOH at room temperature for 6 h to give the title compound (II) in 76% yield. An artificial feed soaked with a diluted emulsion of 500 ppm II killed 100% Spodoptera litura larvae.

IT 178942-29-5P

(preparation of (dihalopropenyloxy)benzene derivs. as insecticides and acaricides)

RN 178942-29-5 HCPLUS

CN Benzenamine, 3,5-dichloro-N-[(4-chlorophenyl)methylene]-4-[(3,3-dichloro-2-propenyl)oxy]- (9CI) (CA INDEX NAME)



IC ICM C07C211-50

ICS A01N033-06; A01N033-10; C07C211-52; C07C217-84; C07C323-37

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5

IT 3460-23-9P, 4'-Bromo-2'-chloroacetanilide 56074-07-8P, 2'-Chloro-4'-hydroxyacetanilide 178942-29-5P

178942-30-8P 178942-31-9P 178942-32-0P

178942-33-1P 178942-34-2P 178942-35-3P

178942-36-4P 178942-37-5P 178942-38-6P 178942-39-7P

178942-40-0P 178942-41-1P 178942-42-2P 178942-43-3P

(preparation of (dihalopropenyloxy)benzene derivs. as insecticides and acaricides)

L37 ANSWER 19 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:379674 HCPLUS Full-text

DOCUMENT NUMBER: 125:58089

TITLE: Preparation of substituted phenyl-containing dihalopropene insecticides and acaricides

INVENTOR(S): Sakamoto, Noriyasu; Suzuki, Masaya; Tsushima, Kazunori; Umeda, Kimitoshi

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan

SOURCE: PCT Int. Appl., 239 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9604228	A1	19960215	WO 1995-JP1439 W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG	19950720 <--
JP 08337549	A	19961224	JP 1995-181958 <--	19950718
JP 3834838	B2	20061018		
CA 2172709	A1	19960215	CA 1995-2172709 <--	19950720
AU 9529369	A	19960304	AU 1995-29369 <--	19950720
AU 692894	B2	19980618		
EP 722430	A1	19960724	EP 1995-925148 <--	19950720
EP 722430	B1	19981021		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1137265	A	19961204	CN 1995-190997 <--	19950720
CN 1128777	B	20031126		
HU 75028	A2	19970328	HU 1996-1186 <--	19950720
BR 9506309	A	19970805	BR 1995-6309 <--	19950720
AT 172448	T	19981115	AT 1995-925148 <--	19950720
ES 2124570	T3	19990201	ES 1995-925148 <--	19950720
RU 2144526	C1	20000120	RU 1996-113040 <--	19950720
IL 126135	A	20000229	IL 1995-126135 <--	19950725
IL 126136	A	20000229	IL 1995-126136 <--	19950725
IL 114724	A	20000601	IL 1995-114724 <--	19950725
ZA 9506312	A	19960304	ZA 1995-6312 <--	19950728
IN 1995MA00963	A	20050225	IN 1995-MA963 <--	19950728
MX 9601249	A	20000831	MX 1996-1249 <--	19960401
US 5872137	A	19990216	US 1997-917372 <--	19970826
PRIORITY APPLN. INFO.:			JP 1994-183461 <--	A 19940804
			JP 1994-243931 <--	A 19941007
			JP 1995-89737	A 19950414

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WO 1995-JP1439 W 19950720  
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IL 1995-114724 A3 19950725  
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US 1996-624488 B1 19960404  
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OTHER SOURCE(S): MARPAT 125:58089

ED Entered STN: 02 Jul 1996

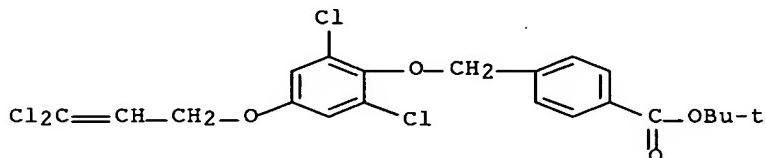
AB The title compds. [I; R1 = (un)substituted alkyl, haloalkyl, alkenyl, haloalkenyl, alkynyl, haloalkynyl, etc.; R2, R3, R14 = halogen, haloalkyl, alkyl; X = Cl, Br; Y = O, NH, S], which have insecticidal and acaricidal activity, are prepared and I-containing formulations presented. Thus, 4-(3,3-dichloro-2-propenoxy)-2,6-dichlorophenol was reacted with 4-phenyl-1-butanol in the presence of PPh<sub>3</sub> and di-Et azodicarboxylate, producing pesticidal 3,5-dichloro-1-(3,3-dichloro-2-propenoxy)-4-(4-phenylbutyloxy)benzene in 73% yield.

IT **178043-59-9P**

(preparation of substituted phenyl-containing dihalopropene insecticides and acaricides)

RN 178043-59-9 HCAPLUS

CN Benzoic acid, 4-[(2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy)methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IC ICM C07C043-225

ICS A01N031-16; A01N033-02; A01N037-12; A01N043-08; C07C069-76; C07C217-04; C07C323-12; C07C323-20; C07C043-23

CC 25-9 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 5

IT	178043-09-9P	178043-10-2P	178043-11-3P	178043-50-0P
	178043-51-1P	178043-52-2P	178043-53-3P	178043-54-4P
	178043-55-5P	178043-56-6P	178043-57-7P	178043-58-8P
	<b>178043-59-9P</b>	178043-60-2P	178043-61-3P	178043-62-4P
	178043-63-5P	178043-64-6P	178043-65-7P	178043-66-8P
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	178043-71-5P	178043-72-6P	178043-73-7P	178043-74-8P
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178045-10-8P	178045-11-9P	<b>178045-12-0P</b>	
<b>178045-13-1P</b>	<b>178045-14-2P</b>	<b>178045-15-3P</b>	
<b>178045-16-4P</b>	178045-17-5P	178045-18-6P	178045-19-7P
178045-20-0P	178045-21-1P	178045-22-2P	178045-23-3P
178045-24-4P	<b>178045-25-5P</b>	<b>178045-26-6P</b>	
178045-27-7P	<b>178045-28-8P</b>	<b>178045-29-9P</b>	
<b>178045-30-2P</b>	<b>178045-31-3P</b>	178045-32-4P	
178045-33-5P	178045-34-6P	178045-35-7P	178045-36-8P
<b>178045-37-9P</b>	<b>178045-38-0P</b>	<b>178045-39-1P</b>	
<b>178045-40-4P</b>	<b>178045-41-5P</b>	178045-42-6P	
178045-43-7P	178045-44-8P	178045-45-9P	178045-46-0P
178045-47-1P	178045-48-2P	178045-49-3P	<b>178045-50-6P</b>
<b>178045-51-7P</b>	<b>178045-52-8P</b>	<b>178045-53-9P</b>	
<b>178045-54-0P</b>	178045-55-1P	178045-56-2P	178045-57-3P
178045-58-4P	178045-59-5P	178045-60-8P	178045-61-9P
178045-62-0P	178045-63-1P	178045-64-2P	178045-65-3P
178045-66-4P	178045-67-5P	178045-68-6P	178045-69-7P
178045-70-0P	178045-71-1P	178045-72-2P	178045-73-3P
178045-74-4P	178045-75-5P	<b>178045-76-6P</b>	178045-77-7P
178045-78-8P	178045-79-9P	178045-80-2P	178045-81-3P
178045-82-4P	178045-83-5P	178045-84-6P	178045-85-7P
<b>178045-86-8P</b>	<b>178045-87-9P</b>	178045-88-0P	
<b>178045-89-1P</b>			

(preparation of substituted phenyl-containing dihalopropene insecticides

and

acaricides)

IT	178045-90-4P	<b>178045-91-5P</b>	178045-92-6P	178045-93-7P
	178045-94-8P	178045-95-9P	178045-96-0P	178045-97-1P
	178045-98-2P	<b>178045-99-3P</b>	<b>178046-00-9P</b>	
	<b>178046-01-0P</b>	178046-02-1P	178046-03-2P	178046-04-3P
	178046-05-4P	178046-06-5P	178046-07-6P	178046-08-7P
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	178046-13-4P	178046-14-5P	178046-15-6P	178046-16-7P
	178046-17-8P	<b>178046-18-9P</b>	178046-19-0P	178046-20-3P
	178046-21-4P	178046-22-5P	178046-23-6P	178046-24-7P

178046-25-8P 178046-26-9P 178046-27-0P

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178046-36-1P	178046-37-2P	178046-38-3P	178046-39-4P
178046-40-7P	178046-41-8P	178046-42-9P	178046-43-0P
178046-44-1P	178046-45-2P	178046-46-3P	

(preparation of substituted phenyl-containing dihalopropene insecticides

and

acaricides)

IT 1687-64-5P, 2-Ethyl-6-methylphenol 2444-21-5P 7564-39-8P  
 75906-34-2P 102793-82-8P 147351-66-4P 178043-19-1P  
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 178043-24-8P 178043-25-9P 178043-26-0P 178043-27-1P  
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 178043-32-8P 178043-33-9P 178043-34-0P 178043-35-1P  
**178043-36-2P** 178043-37-3P 178043-38-4P 178043-39-5P  
 178043-40-8P 178043-41-9P 178043-42-0P 178043-43-1P  
 178043-44-2P 178043-45-3P 178043-46-4P **178043-47-5P**  
 178043-48-6P 178043-49-7P

(preparation of substituted phenyl-containing dihalopropene insecticides

and

acaricides)

L37 ANSWER 20 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:871989 HCPLUS Full-text

DOCUMENT NUMBER: 123:285501

TITLE: Preparation of dihalopropene aryl ethers as  
insecticides and acaricides.INVENTOR(S): Sakamoto, Noriyasu; Suzuki, Masaya; Nagatomi,  
Toshio; Tsushima, Kazunori; Umeda, Kimitoshi

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 113 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 648729	A1	19950419	EP 1994-116487 -->	19941019
EP 648729	B1	19980715		
R: CH, DE, ES, FR, GB, IT, LI				
JP 07188088	A	19950725	JP 1994-242660 -->	19941006
JP 3823329	B2	20060920		
AU 9475880	A	19950511	AU 1994-75880 -->	19941017
AU 675580	B2	19970206		
CA 2118349	A1	19950420	CA 1994-2118349 -->	19941018
BR 9404147	A	19950613	BR 1994-4147 -->	19941018
ZA 9408162	A	19950619	ZA 1994-8162 -->	19941018
RU 2130008	C1	19990510	RU 1994-37561 -->	19941018
CN 1108642	A	19950920	CN 1994-117139 -->	19941019

CN 1080251	B	20020306		
US 5530015	A	19960625	US 1994-325597 <--	19941019
ES 2119046	T3	19981001	ES 1994-116487 <--	19941019
US 5698702	A	19971216	US 1996-600179 <--	19960212
PRIORITY APPLN. INFO.:			JP 1993-261380 <--	A 19931019
			US 1994-325597 <--	A3 19941019

OTHER SOURCE(S): CASREACT 123:285501; MARPAT 123:285501

ED Entered STN: 24 Oct 1995

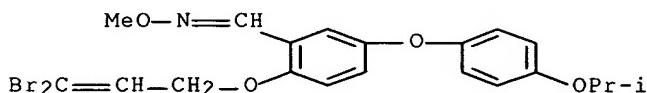
AB Title compds. I (l = 1-5; m = 1-4; R1 = halo, NC, AcNH, F3CCONH, O2N, Cl-8 alkyl, C1-3 haloalkyl, C1-7 alkoxy, C3-6 cycloalkyl, Ph, pyridyloxy, PhO, PhCH<sub>2</sub>, etc.; R2 = halo, C1-5 alkyl, C1-3 alkoxy, C2-4 alkenyl, (substituted) Ph, etc.; D = O, NH, S; X = Br, Cl; Y = O, (substituted) NH, etc.; Z, P, Q = N, CH), are prepared. The intermediates for I are also prepared. 3-Ethyl-4-(4-isopropoxyphenoxy)phenol (preparation given), K<sub>2</sub>CO<sub>3</sub>, DMF, and 1,1,3-tribromo-1-propene were added at room temperature for 12 h to give I (R11 = 4-Me<sub>2</sub>CHO, R2m = 3-Et, D = Y = O, X = Br, Z = P = Q = CH) (II). In test against Spodoptera litura II at 500 ppm exhibited not less than 80% mortality.

IT 169244-99-9P

(preparation of dihalopropene aryl ethers as insecticides and acaricides)

RN 169244-99-9 HCPLUS

CN Benzaldehyde, 2-[(3,3-dibromo-2-propenyl)oxy]-5-[4-(1-methylethoxy)phenoxy]-, O-methyloxime (9CI) (CA INDEX NAME)



IC ICM C07C043-29

ICS A01N031-08; A01N043-40; C07D213-64; C07C043-295; C07C043-225; C07C323-20; C07D213-74

CC 25-9 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 5, 27

IT 169243-87-2P	169243-88-3P	169243-89-4P	169243-90-7P
169243-91-8P	169243-92-9P	169243-93-0P	169243-94-1P
169243-95-2P	169243-96-3P	169243-97-4P	169243-98-5P
169243-99-6P	169244-00-2P	169244-01-3P	169244-02-4P
169244-03-5P	169244-04-6P	169244-05-7P	169244-06-8P
169244-07-9P	169244-08-0P	169244-09-1P	169244-10-4P
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169244-47-7P	169244-48-8P	169244-49-9P	169244-50-2P
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169244-95-5P	169244-96-6P	169244-97-7P	169244-98-8P
<b>169244-99-9P</b>	<b>169245-00-5P</b>	<b>169245-01-6P</b>	<b>169245-02-7P</b>
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(preparation of dihalopropene aryl ethers as insecticides and acaricides)

IT	169246-27-9P	169246-28-0P	169246-29-1P	169246-30-4P
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	169246-59-7P	169246-60-0P	169246-61-1P	169246-62-2P
	169246-63-3P	169246-64-4P	169246-65-5P	169246-66-6P
	169246-67-7P	169246-68-8P	169246-69-9P	169246-70-2P
	169246-71-3P	169246-72-4P	169246-73-5P	169246-74-6P
	<b>169246-75-7P</b>	<b>169246-76-8P</b>	<b>169246-77-9P</b>	
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	169246-86-0P	169246-87-1P	169246-88-2P	169246-89-3P

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**169247-34-1P** 169247-35-2P

(preparation of dihalopropene aryl ethers as insecticides and acaricides)

L37 ANSWER 21 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:157784 HCPLUS Full-text

DOCUMENT NUMBER: 112:157784

TITLE: Bis- $\alpha$ -hydrohexafluoroisobutyrate and bispentafluoromethacrylates

AUTHOR(S): Bargamov, G. G.; Rokhlin, E. M.; Galakhov, M. V.; Mysov, E. I.

CORPORATE SOURCE: Inst. Elementoorg. Soedin., Moscow, USSR

SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1989), (7), 1645-8

CODEN: IASKA6; ISSN: 0002-3353

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 112:157784

ED Entered STN: 28 Apr 1990

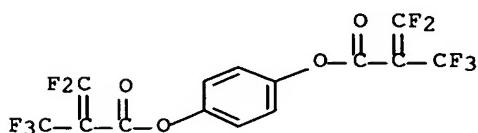
AB Addition reaction of  $(CF_3)_2C:C:O$  to HOZOH [Z =  $(CH_2)_2$ ,  $(CH_2)_4$ , 1,4-phenylene] in  $Et_2O$  at  $0^\circ$  gave 72-92%  $[(CF_3)_2CHCO_2SO_2]_{2Z}$  (I) which were dehydrofluorinated by  $Et_3N.BF_3$  to give  $[F_2C:C(CF_3)CO_2]_{2Z}$ . Bromination of I (Z = 1,4-phenylene) gave 59%  $[(CF_3)_2CBrCO_2]_{2Z}$  and treatment with aqueous  $Et_3N$  gave  $(CF_3CH_2CO_2)_{2Z}$ . Addnl. obtained was polymeric  $[CF_2CH(CF_3)CO_2CH_2CH_2O_2CCH(CF_3)CF_2OCH_2CH_2O]_n$ .

IT **125467-02-9P**

(preparation of)

RN 125467-02-9 HCPLUS

CN 2-Propenoic acid, 3,3-difluoro-2-(trifluoromethyl)-, 1,4-phenylene ester (9CI) (CA INDEX NAME)



CC 25-17 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

IT 125466-52-6P **125467-02-9P 125467-03-0P**

125489-27-2P 125503-42-6P 125503-43-7P 125954-21-4P  
 (preparation of)

L37 ANSWER 22 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:457289 HCPLUS Full-text

DOCUMENT NUMBER: 111:57289

TITLE: Preparation of substituted aminophenyl carbamates  
 as agrochemical fungicides  
 INVENTOR(S): Kruger, Bernd Wieland; Sasse, Klaus; Heitkamper,  
 Peter; Konig, Klaus; Brandes, Wilhelm; Hanssler,  
 Gerd; Marhold, Albrecht  
 PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.  
 SOURCE: Eur. Pat. Appl., 42 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 293718	A2	19881207	EP 1988-108239 ----- R: BE, CH, DE, ES, FR, GB, IT, LI, NL DE 3804288	19880524 <-- DE 1988-3804288
EP 293718	A3	19900131		
EP 293718	B1	19930203		
US 4939170	A	19900703	US 1988-197009 -----	19880520 <--
ES 2043725	T3	19940101	ES 1988-108239 -----	19880524 <--
JP 63310861	A	19881219	JP 1988-128585 -----	19880527 <--
JP 2574397	B2	19970122		
BR 8802684	A	19881227	BR 1988-2684 -----	19880602 <--
AU 8817327	A	19881208	AU 1988-17327 -----	19880603 <--
AU 618264	B2	19911219		
US 5260474	A	19931109	US 1992-852484 -----	19920316 <--
US 5371271	A	19941206	US 1993-90342 -----	19930818 <--
PRIORITY APPLN. INFO.:			DE 1987-3718522 -----	A 19870603 <--
			DE 1988-3804288 -----	A 19880212 <--
			US 1988-197009 -----	A3 19880520 <--
			US 1990-473552 -----	B1 19900201 <--
			US 1992-852484 -----	A3 19920316 <--

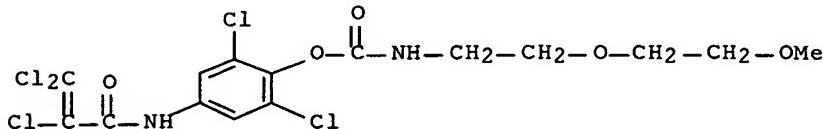
OTHER SOURCE(S): CASREACT 111:57289; MARPAT 111:57289

ED Entered STN: 20 Aug 1989  
 AB Y1Y2Y3Y4(XHN)C6OCONR1CR2R3CR4R5(CR6R7)nOZ [I; R1-R7 = H, alkyl, haloalkyl,  
 alkoxyalkyl; X = H, CONR8R9, CO2R9, COSR9, COR10, SO2R9; R8 = H, alkyl; R9 =  
 (un)substituted alkyl, aryl, etc.; R10 = R9, (un)substituted heterocyclyl; Y1-  
 Y4 = H, halo, NO2, etc.; Z = alkyl, haloalkyl, CR11R12CR13R14OR15; R11-R14 =  
 R1; R15 = alkyl, haloalkyl, alkoxyalkyl; n = 0, 1] were prepared 2,4-  
 Cl(Me3CCOHN)C6H3OH was stirred 2 h with MeOCH2CH2NCO (preparation given) in  
 PhMe containing DBU to give 90% 2,4-Cl(Me3CCOHN)C6H3OCONHCH2CH2OMe. 4-  
 (Me2CHCH2OCOHN)C6H4OCONH(CH2CH2 O)2Me, sprayed at 0.025%, gave 90-100%  
 protection against Pyricularia oryzae on rice plants.  
 IT 121576-75-8P

(preparation of, as agrochem. fungicide)

RN 121576-75-8 HCPLUS

CN Carbamic acid, [2-(2-methoxyethoxy)ethyl]-, 2,6-dichloro-4-[(2,3,3-trichloro-1-oxo-2-propenyl)amino]phenyl ester (9CI) (CA INDEX NAME)



IC ICM C07C125-06

ICS C07C127-19; C07D319-06; C07C091-44; C07C079-26; A01N047-22;  
A01N047-20; A01N047-30CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 5

IT	121554-86-7P	121554-87-8P	121554-88-9P	121554-89-0P
	121554-90-3P	121554-91-4P	121554-92-5P	121554-93-6P
	121554-94-7P	121554-95-8P	121554-96-9P	121554-97-0P
	121554-98-1P	121554-99-2P	121555-00-8P	121555-01-9P
	121555-02-0P	121555-03-1P	121555-04-2P	121555-05-3P
	121555-06-4P	121555-07-5P	121555-08-6P	121555-09-7P
	121555-10-0P	121555-11-1P	121555-12-2P	121555-13-3P
	121555-14-4P	121555-15-5P	121555-16-6P	121555-17-7P
	121555-18-8P	121555-19-9P	121555-20-2P	121555-21-3P
	121555-22-4P	121555-23-5P	121555-24-6P	121555-25-7P
	121555-26-8P	121555-27-9P	121555-28-0P	121555-29-1P
	121555-30-4P	121555-31-5P	121555-32-6P	121555-33-7P
	121555-34-8P	121555-35-9P	121555-36-0P	121555-37-1P
	121555-38-2P	121555-39-3P	121555-40-6P	121555-41-7P
	121555-42-8P	121555-43-9P	121555-44-0P	121555-45-1P
	121555-46-2P	121555-47-3P	121555-48-4P	121555-49-5P
	121555-50-8P	121555-51-9P	121555-52-0P	121555-53-1P
	121555-54-2P	121555-55-3P	121555-56-4P	121555-57-5P
	121555-58-6P	121555-59-7P	121555-60-0P	121555-61-1P
	121555-62-2P	121555-63-3P	121576-74-7P	<b>121576-75-8P</b>
	121576-76-9P	121576-77-0P		

(preparation of, as agrochem. fungicide)

L37 ANSWER 23 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:196007 HCPLUS Full-text

DOCUMENT NUMBER: 106:196007

TITLE: Reaction of substituted o-nitroanilines with unsaturated chlorine-containing acids

AUTHOR(S): Molchanov, L. V.; Ayupova, A. T.; Eshimbetov, Zh.; Aliev, N. A.

CORPORATE SOURCE: Tashk. S-Kh. Inst., Tashkent, USSR

SOURCE: Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva im. D. I. Mendeleva (1986), 31(4), 464-5  
CODEN: ZVKOA6; ISSN: 0373-0247

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 106:196007

ED Entered STN: 13 Jun 1987

AB Amidation of 2,4-(O<sub>2</sub>N)RC<sub>6</sub>H<sub>3</sub>NH<sub>2</sub> (I; R = H, Me, Cl, NO<sub>2</sub>) with R<sub>1</sub>R<sub>2</sub>C:CClCO<sub>2</sub>H (R<sub>1</sub>, R<sub>2</sub> = H, Cl) in xylene containing P2O<sub>5</sub> gave 27-70% 2,4-(O<sub>2</sub>N)RC<sub>6</sub>H<sub>3</sub>NHCOC<sub>1</sub>:CR<sub>1</sub>R<sub>2</sub>

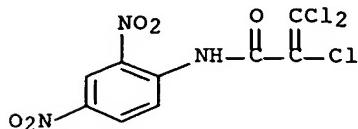
(same R-R2). Amidation of I (R = H, Me, Cl) in xylene containing P2O5 with CCl<sub>2</sub>:CClCCl:CClCO<sub>2</sub>H gave 2,4-(O<sub>2</sub>N)ClC<sub>6</sub>H<sub>3</sub>NCOCl:CClCCl:CCl<sub>2</sub> and 35-50% II (same R; R<sub>3</sub> = OH). I (R = NO<sub>2</sub>) gave 2% II (R = NO<sub>2</sub>, R<sub>3</sub> = Cl) (III). III gave 100% II (R = NO<sub>2</sub>, R<sub>3</sub> = OH) when boiled in EtOH containing 1% NaOH.

IT 108201-59-8P

(preparation of)

RN 108201-59-8 HCPLUS

CN 2-Propenamide, 2,3,3-trichloro-N-(2,4-dinitrophenyl)- (9CI) (CA INDEX NAME)



CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 27

IT 955-51-1P 958-86-1P 28139-21-1P 80460-18-0P 108201-52-1P

108201-53-2P 108201-54-3P 108201-55-4P 108201-56-5P

108201-57-6P 108201-58-7P 108201-59-8P 108201-62-3P

108201-63-4P 108201-64-5P 108201-65-6P

(preparation of)

L37 ANSWER 24 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:151627 HCPLUS Full-text

DOCUMENT NUMBER: 106:151627

TITLE: Formamide oxime derivative fungicides and insecticides

INVENTOR(S): Hayakawa, Koichi; Nishikawa, Hiroaki; Hashimoto, Akira

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 64 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61165360	A	19860726	JP 1985-5403 <--	19850116
PRIORITY APPLN. INFO.:			JP 1985-5403 <--	19850116

OTHER SOURCE(S): CASREACT 106:151627

ED Entered STN: 15 May 1987

AB Formamide oxime derivs. I [X = halo, NO<sub>2</sub>, CN, CHO, alkylcarbonyl, CO<sub>2</sub>H, alkoxy carbonyl, alkenyloxy carbonyl, alkynyoxy carbonyl, CONH<sub>2</sub>, alkylcarbamoyl, etc.; B = O, S, SO, SO<sub>2</sub>, NR<sub>1</sub>; Y = H, halo, CN, cycloalkyl, alkylcarbonyloxy, alkylcarbonyl, alkoxy carbonyl, OH, alkoxy, alkylthio, ureido, etc.; m, n = 0-5; R = (un)substituted Ph, halo, CN, alkoxy, alkylthio, alkoxy carbonyl, etc.; R<sub>1</sub> = H, alkyl] are prepared as fungicides and insecticides. Thus, 27.9 g 4-amino-2,6-diethylphenol was treated with HC(OEt)<sub>3</sub> in 100 mL AcOEt followed by treatment with 11.2 g EtONH<sub>2</sub> to give 37.89 N-(3,5-diethyl-4-hydroxyphenyl)-N'-ethoxyformamidine. To 9.0 g of this product was added 6.55 g EtI and 5.3 g

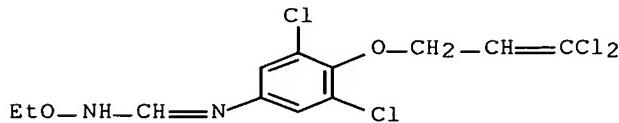
K<sub>2</sub>CO<sub>3</sub> in 50 mL acetone to give 9.9 g N-(3,5-diethyl-4-ethoxyphenyl)-N'-ethoxyformamidine (II). II, applied at 200 ppm, totally controlled Botrytis cinerea on bean.

IT **98866-53-6P**

(preparation of, as fungicide and insecticide)

RN 98866-53-6 HCAPLUS

CN Methanimidamide, N-[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]-N'-ethoxy- (9CI) (CA INDEX NAME)



IC ICM C07C131-00

ICS A01N037-52; A01N043-20; A01N043-30; A01N047-24; C07C143-68; C07C145-00; C07C147-12; C07C147-14; C07C149-42; C07C149-437; C07D303-36; C07D317-28

CC 5-4 (Agrochemical Bioregulators)

IT	98852-60-9P	98852-61-0P	98852-62-1P	98852-63-2P	98852-64-3P
	98852-65-4P	98852-66-5P	98852-67-6P	98852-68-7P	98852-69-8P
	98852-70-1P	98852-71-2P	98852-72-3P	98852-73-4P	98852-74-5P
	98866-52-5P	<b>98866-53-6P</b>	98866-54-7P	98866-55-8P	
	98866-56-9P	98866-57-0P	98866-58-1P	98866-59-2P	98866-60-5P
	98866-61-6P	98866-62-7P	98866-63-8P	98866-64-9P	98866-65-0P
	98866-66-1P	98866-67-2P	98866-68-3P	98866-69-4P	98866-70-7P
	98866-71-8P	98866-72-9P	98866-73-0P	98866-74-1P	98866-75-2P
	98866-76-3P	98866-77-4P	98866-78-5P	98866-79-6P	98866-80-9P
	98866-81-0P	98866-82-1P	98866-83-2P	98866-84-3P	98866-85-4P
	98866-86-5P	98866-87-6P	98866-88-7P	98866-89-8P	98866-90-1P
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	aluminum complex				
	98867-00-6P	98867-01-7P	98867-02-8P		
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	98867-39-1P	98867-40-4P	98867-41-5P	98867-42-6P	98867-44-8P
	98867-45-9P	98867-46-0P	98867-47-1P	98867-48-2P	98867-49-3P
	98867-50-6P	98867-51-7P	98867-52-8P	98867-53-9P	98867-54-0P
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104939-93-7P	104941-16-4P	104941-17-5P	104941-20-0P	
104941-21-1P	104941-22-2P	104941-23-3P	104941-25-5P	
104941-26-6P	104941-27-7P			

(preparation of, as fungicide and insecticide)

L37 ANSWER 25 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:67307 HCPLUS Full-text

DOCUMENT NUMBER: 106:67307

TITLE: Azolylcarboxamidine derivatives as insecticides

INVENTOR(S): Igura, Katsuyata; Hayakawa, Koichi; Yamada, Tomio; Takahashi, Eiko; Hatano, Renpei

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61129161	A	19860617	JP 1984-249263 ----- <--	19841126
PRIORITY APPLN. INFO.:			JP 1984-249263 ----- <--	19841126

OTHER SOURCE(S): CASREACT 106:67307

ED Entered STN: 07 Mar 1987

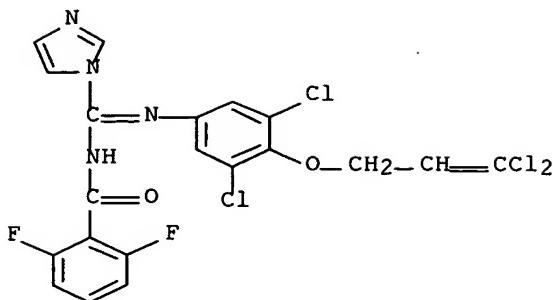
AB The title compds. (I; A = imidazolyl, pyrazolyl, triazolyl, etc.; R1-3 = H, halo, NO<sub>2</sub>, etc.; X<sub>1</sub>, X<sub>2</sub> = H, halo, Me, CF<sub>3</sub>), effective insecticides at 125-500 ppm, are prepared Thus, 1.5 g SOCl<sub>2</sub> was added to a solution of 3.5 g imidazole in CH<sub>2</sub>Cl<sub>2</sub> under cooling, followed by 4.5 g II, and the mixture stirred at room temperature to give 3.4 g I (A = 1-imidazolyl, R<sub>1</sub> = CF<sub>3</sub>, R<sub>2</sub> = Cl, R<sub>3</sub> = H, X<sub>1</sub> = X<sub>2</sub> = F).

IT 96545-55-0P

(preparation of, as insecticide)

RN 96545-55-0 HCPLUS

CN Benzamide, N-[[[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]amino]-1H-imidazol-1-ylmethylene]-2,6-difluoro-(9CI) (CA INDEX NAME)



IC ICM C07C149-24

ICS A01N041-12; A01N043-48; A01N043-64; C07D231-12; C07D231-16;  
C07D233-61; C07D235-06; C07D235-08; C07D249-08; C07D249-18

CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

IT	96530-82-4P	96530-83-5P	96530-84-6P	96530-85-7P	96530-86-8P
	96530-87-9P	96530-88-0P	96530-89-1P	96530-90-4P	96530-91-5P
	96530-92-6P	96530-93-7P	96530-94-8P	96530-95-9P	96530-96-0P
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	96531-02-1P	96531-03-2P	96531-04-3P	96531-05-4P	96531-06-5P
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	96531-17-8P	96531-18-9P	96531-19-0P	96531-20-3P	96531-21-4P
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	96531-37-2P	96531-38-3P	96531-39-4P	96531-40-7P	96531-41-8P
	96531-42-9P	96531-43-0P	96531-44-1P	96531-45-2P	96531-46-3P
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	96531-57-6P	96531-58-7P	96531-59-8P	96531-60-1P	96531-61-2P
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	96545-71-0P	96545-72-1P	96545-73-2P	96545-74-3P	96545-75-4P
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106329-40-2P	106329-41-3P	106329-42-4P	106329-43-5P	

(preparation of, as insecticide)

L37 ANSWER 26 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:460601 HCPLUS Full-text

DOCUMENT NUMBER: 105:60601

TITLE: Imidazolecarboxamidines as insecticides

INVENTOR(S): Igura, Katsuyata; Hayakawa, Koichi; Yamada, Tomio;  
Takahashi, Eiko; Hatano, Renpei

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

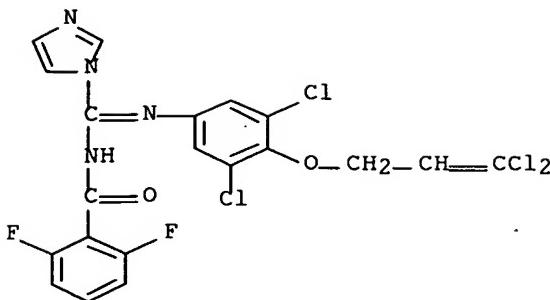
DOCUMENT TYPE: Patent

LANGUAGE: Japanese.

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60252467	A	19851213	JP 1984-106637 -->	19840528
PRIORITY APPLN. INFO.:			JP 1984-106637 -->	19840528
OTHER SOURCE(S):	CASREACT 105:60601			
ED	Entered STN: 23 Aug 1986			
AB	Insecticidal I [R = halo, Me; R1 = H, halo; R2 = H, halo, C1-6 haloalkyl; R3 = H, halo, NO2, C1-8 alkyl, C1-6 haloalkyl, alkoxy carbonyl, dialkylamino, (C1-3 alkyl substituted) phenylazo, etc.; R4 = H, halo, NO2, C1-6 alkyl, C2-6 alkenyloxy, alkynylloxy, (NO2 substituted) PhO; R7 = imidazolyl, triazolyl, (halo or alkyl substituted) pyrazolyl, benzimidazolyl, benzotriazolyl] and their metal salts were prepared by treating thioureas II with R7SOR7. Thus, 0.9 g SOCl2 was added dropwise to 1.8 g benzimidazole in CH2Cl2 in the presence of Et3N with ice cooling and the mixture treated with 3 g II (R = R1 = F, R2 = R3 = R4 = Cl) at room temperature for 5 h to give 2.7 g I (R = R1 = F, R2 = R3 = R4 = Cl, R7 = 1-benzimidazolyl), whose aqueous solution (1500 ppm) killed eggs of tobacco cutworm completely.			
IT	96545-55-0P (preparation of, as insecticide)			
RN	96545-55-0 HCPLUS			
CN	Benzamide, N-[[[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]amino]-1H-imidazol-1-ylmethylene]-2,6-difluoro-(9CI) (CA INDEX NAME)			



IC ICM C07D233-60

ICS A01N047-42; C07D231-16; C07D235-06; C07D249-08

CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

IT	96530-85-7P	96530-86-8P	96530-88-0P	96530-89-1P	96530-90-4P
	96530-92-6P	96531-38-3P	96531-39-4P	96531-40-7P	96531-41-8P
	96531-42-9P	96531-44-1P	96531-45-2P	96531-46-3P	96531-47-4P
	96531-48-5P	96531-53-2P	96531-54-3P	96545-29-8P	96545-30-1P
	96545-31-2P	96545-33-4P	96545-34-5P	96545-36-7P	96545-37-8P
	96545-38-9P	96545-40-3P	96545-41-4P	96545-42-5P	96545-43-6P
	96545-44-7P	96545-45-8P	96545-46-9P	96545-48-1P	96545-50-5P
	96545-51-6P	96545-52-7P	96545-54-9P	<b>96545-55-0P</b>	
	96545-56-1P	96545-57-2P	96545-58-3P	96545-59-4P	96545-60-7P
	96545-61-8P	96545-62-9P	96545-63-0P	96545-64-1P	96545-65-2P
	96545-66-3P	96545-79-8P	96545-80-1P	96545-81-2P	96545-82-3P
	96545-83-4P	96545-84-5P	96545-85-6P	96545-86-7P	96545-87-8P
	96545-88-9P	96545-89-0P	96545-90-3P	96545-91-4P	96545-92-5P
	96545-93-6P	96545-94-7P	96545-95-8P	96545-96-9P	96545-97-0P
	96906-19-3P	102068-98-4P	102120-41-2P	102120-42-3P	
	102120-43-4P	102120-44-5P	102120-45-6P	102137-04-2P	
	102137-05-3P	102137-06-4P	102407-27-2P	102407-28-3P	
	102407-29-4P	102407-30-7P	102407-31-8P	102407-32-9P	

(preparation of, as insecticide)

L37 ANSWER 27 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:578031 HCPLUS Full-text

DOCUMENT NUMBER: 103:178031

TITLE: Formamidoxime derivatives

INVENTOR(S): Hayakawa, Koichi; Nishikawa, Hiroaki; Hashimoto, Sho

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 151 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 132881	A1	19850213	EP 1984-201035	19840711
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R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
JP 60019759	A	19850131	JP 1983-127825	19830715
			<--	

## 10/560,292

JP 60078954	A	19850504	JP 1983-187004 -->	19831007
JP 60078955	A	19850504	JP 1983-187005 -->	19831007
JP 60174757	A	19850909	JP 1984-29504 -->	19840221
JP 60174758	A	19850909	JP 1984-29505 -->	19840221
JP 60174759	A	19850909	JP 1984-29506 -->	19840221
JP 60178854	A	19850912	JP 1984-35020 -->	19840225
JP 60215603	A	19851029	JP 1984-69129 -->	19840409
AU 8430229	A	19850117	AU 1984-30229 -->	19840703
IN 158923	A1	19870221	IN 1984-CA489 -->	19840709
ZA 8405289	A	19850529	ZA 1984-5289 -->	19840710
DK 8403469	A	19850116	DK 1984-3469 -->	19840713
SE 8403711	A	19850116	SE 1984-3711 -->	19840713
BR 8403509	A	19850625	BR 1984-3509 -->	19840713
HU 36088	A2	19850828	HU 1984-2744 -->	19840713
ES 534320	A1	19851001	ES 1984-534320 -->	19840713
DD 228155	A5	19851009	DD 1984-265268 -->	19840713
DD 235252	A5	19860430	DD 1984-277960 -->	19840713
DD 239592	A5	19861001	DD 1984-277961 -->	19840713
FI 8402861	A	19850116	FI 1984-2861 -->	19840716
RO 93859	B3	19880229	RO 1984-124996 -->	19840716
RO 93860	B3	19880229	RO 1984-124997 -->	19840716
RO 93861	B3	19880229	RO 1984-124998 -->	19840716
RO 93862	B3	19880229	RO 1984-124999 -->	19840716
RO 93863	B3	19880229	RO 1984-125000 -->	19840716
RO 91187	B3	19880330	RO 1984-115258 -->	19840716
ES 542534	A1	19860101	ES 1985-542534 -->	19850424
ES 542535	A1	19860101	ES 1985-542535 -->	19850424
ES 544385	A1	19860116	ES 1985-544385 -->	19850620
PRIORITY APPLN. INFO.:			JP 1983-127825 -->	A 19830715
			JP 1983-187004 -->	A 19831007

JP 1983-187005	A 19831007
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JP 1984-29504	A 19840221
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JP 1984-29505	A 19840221
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JP 1984-29506	A 19840221
<--	
JP 1984-35020	A 19840225
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JP 1984-69129	A 19840409
<--	
JP 1984-67129	A 19840409
<--	
HU 1984-2744	A 19840713
<--	

OTHER SOURCE(S): CASREACT 103:178031

ED Entered STN: 30 Nov 1985

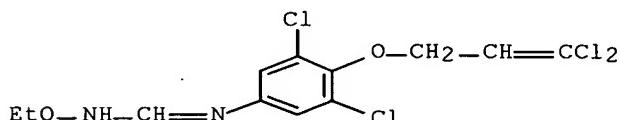
AB N-Phenylformamidoximes I [each of m and n is 0, 1, 2, 3, 4, 5; R = halo, NO<sub>2</sub>, cyano, HCO, alkanoyl, CO<sub>2</sub>H, esterified CO<sub>2</sub>H, carbamoyl; oxygenated heteroaryl, saturated or unsatd. hydrocarbyl, substituted saturated or unsatd. hydrocarbyl; Z = O, S, SO, SO<sub>2</sub>, NH, alkylimino; R<sub>1</sub> = saturated or unsatd. hydrocarbyl, substituted saturated or unsatd. hydrocarbyl, or (ZR<sub>1</sub>)<sub>n</sub> is a doubling radical; R<sub>2</sub> = saturated or unsatd. hydrocarbyl, substituted saturated or unsatd. hydrocarbyl], which were prepared, showed pesticidal, insecticidal, and acaricidal activity. Thus, 3,4,5-Me(EtO)2C<sub>6</sub>H<sub>2</sub>N:CHOEt was stirred with EtONH<sub>2</sub> at room temperature to give 3,4,5-Me(EtO)2C<sub>6</sub>H<sub>2</sub>NHCH:NOEt.

IT 98866-53-6P

(preparation and insecticidal activity of)

RN 98866-53-6 HCPLUS

CN Methanimidamide, N-[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]-N'-ethoxy- (9CI) (CA INDEX NAME)



IC ICM C07C131-00

ICS C07C149-14; C07C149-42; C07C147-14; C07D303-22; C07D317-28;  
A01N037-52

CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 5, 23

IT 98850-37-4P 98850-67-0P 98850-78-3P 98851-31-1P 98851-66-2P  
98851-67-3P 98851-68-4P 98851-69-5P 98866-53-6P  
98866-96-7P 98866-98-9P 98866-99-0P 98867-01-7P 98867-02-8P  
98867-03-9P 98867-05-1P 98867-06-2P 98867-08-4P 98867-09-5P  
98867-10-8P 98867-11-9P 98867-17-5P 98867-19-7P 98867-20-0P  
98867-21-1P 98867-23-3P 98867-45-9P

(preparation and insecticidal activity of)

L37 ANSWER 28 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:422593 HCPLUS Full-text

DOCUMENT NUMBER: 103:22593

TITLE: Carboxamidine derivatives

INVENTOR(S): Ikura, Katsuyata; Hayakawa, Koichi; Yamada, Tomio;

PATENT ASSIGNEE(S): Takahashi, Hidemitsu; Hatano, Renpei  
 SOURCE: Nippon Soda Co., Ltd., Japan  
 Eur. Pat. Appl., 62 pp.  
 CODEN: EPXXDW

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 127245	A2	19841205	EP 1984-200786	19840530 -->
JP 592222479	A	19841214	JP 1983-94839	19830531 -->
JP 60025971	A	19850208	JP 1983-131989	19830721 -->
JP 60078961	A	19850504	JP 1983-185525	19831004 -->
ZA 8403486	A	19841224	ZA 1984-3486	19840509 -->
AU 8427928	A	19841206	AU 1984-27928	19840511 -->
AU 547704	B2	19851031		
HU 34103	A2	19850228	HU 1984-2110	19840530 -->
BR 8402600	A	19850430	BR 1984-2600	19840530 -->
DD 228154	A5	19851009	DD 1984-263580	19840530 -->
ES 532963	A1	19860401	ES 1984-532963	19840530 -->
ES 540893	A1	19851201	ES 1985-540893	19850301 -->
PRIORITY APPLN. INFO.:			JP 1983-94839	A 19830531 -->
			JP 1983-131989	A 19830721 -->
			JP 1983-185525	A 19831004 -->

OTHER SOURCE(S): CASREACT 103:22593; MARPAT 103:22593

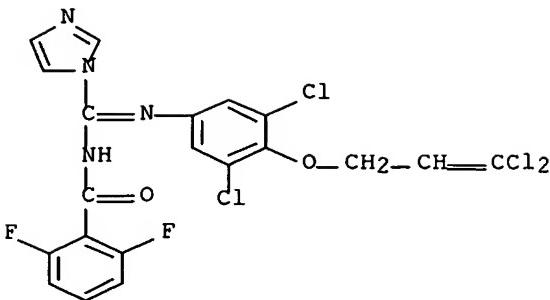
ED Entered STN: 27 Jul 1985

AB Carboxamidines I [R, R1 = H, halogen, Me, CF3; R2 = (un)substituted 1-benzimidazolyl, 1-benzotriazolyl, 1-pyrazolyl, 1-triazolyl, 1-imidazolyl, SSR6; R3, R5 = H, halogen, NO2, haloalkyl, alkenyloxy, (un)substituted PhO, quinoxalinyloxy; R4 = H, halogen, NO2, alkyl, haloalkyl, alkoxy carbonyl, dialkylamino, arylazo, (un)substituted alkoxy, alkylthio, PhO, PhS, heterocyclyloxy, heterocyclylthio; R6 = C1-18 alkyl, cycloalkyl, aralkyl] (229 compds.) were prepared. Thus, 2,6-F2C6H3CONHCSNHC6H3(CF3)F-3,4 was treated with imidazole to give I (R = R1 = R4 = F, R2 = imidazolyl, R3 = CF3, R5 = H, II). At 31.3 ppm II gave 100% kill of tobacco cutworm larvae on sweet potato leaves.

IT 96545-55-0P  
 (preparation and insecticidal activity of)

RN 96545-55-0 HCPLUS

CN Benzamide, N-[[[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]amino]-1H-imidazol-1-ylmethylene]-2,6-difluoro-(9CI) (CA INDEX NAME)



IC C07D233-61; C07D235-06; C07D235-08; C07D249-08; C07D231-16;  
C07D231-12; C07D403-12; C07C157-14; A01N047-42; A01N047-44

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 5

IT	96530-82-4P	96530-83-5P	96530-84-6P	96530-85-7P	96530-86-8P
	96530-87-9P	96530-88-0P	96530-89-1P	96530-90-4P	96530-91-5P
	96530-92-6P	96530-93-7P	96530-94-8P	96530-95-9P	96530-96-0P
	96530-97-1P	96530-98-2P	96530-99-3P	96531-00-9P	96531-01-0P
	96531-02-1P	96531-03-2P	96531-04-3P	96531-05-4P	96531-06-5P
	96531-07-6P	96531-08-7P	96531-09-8P	96531-10-1P	96531-11-2P
	96531-12-3P	96531-13-4P	96531-14-5P	96531-15-6P	96531-16-7P
	96531-17-8P	96531-18-9P	96531-19-0P	96531-20-3P	96531-21-4P
	96531-22-5P	96531-23-6P	96531-24-7P	96531-25-8P	96531-26-9P
	96531-27-0P	96531-28-1P	96531-29-2P	96531-30-5P	96531-31-6P
	96531-32-7P	96531-33-8P	96531-34-9P	96531-35-0P	96531-36-1P
	96531-37-2P	96531-38-3P	96531-39-4P	96531-40-7P	96531-41-8P
	96531-42-9P	96531-43-0P	96531-44-1P	96531-45-2P	96531-46-3P
	96531-47-4P	96531-48-5P	96531-49-6P	96531-50-9P	96531-51-0P
	96531-52-1P	96531-53-2P	96531-54-3P	96531-55-4P	96531-56-5P
	96531-57-6P	96531-58-7P	96531-59-8P	96531-60-1P	96531-61-2P
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	96544-64-8P	96544-65-9P	96544-66-0P	96544-67-1P	96544-68-2P
	96544-69-3P	96544-70-6P	96544-71-7P	96544-72-8P	96544-73-9P
	96544-74-0P	96544-75-1P	96544-76-2P	96544-77-3P	96544-78-4P
	96544-79-5P	96544-80-8P	96544-81-9P	96544-82-0P	96544-83-1P
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	96545-04-9P	96545-05-0P	96545-06-1P	96545-07-2P	96545-08-3P
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	96545-19-6P	96545-20-9P	96545-21-0P	96545-22-1P	96545-23-2P
	96545-24-3P	96545-25-4P	96545-26-5P	96545-27-6P	96545-28-7P
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	96545-39-0P	96545-40-3P	96545-41-4P	96545-42-5P	96545-43-6P
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	96545-54-9P	<b>96545-55-0P</b>	96545-56-1P	96545-57-2P	
	96545-58-3P	96545-59-4P	96545-60-7P	96545-61-8P	96545-62-9P
	96545-63-0P	96545-64-1P	96545-65-2P	96545-66-3P	96545-67-4P
	96545-68-5P	96545-69-6P	96545-70-9P	96545-71-0P	96545-72-1P

96545-73-2P	96545-74-3P	96545-75-4P	96545-76-5P	96545-77-6P
96545-78-7P	96545-79-8P	96545-80-1P	96545-81-2P	96545-82-3P
96545-83-4P	96545-84-5P	96545-85-6P	96545-86-7P	96545-87-8P
96545-88-9P	96545-89-0P	96545-90-3P	96545-91-4P	96545-92-5P
96545-93-6P	96545-94-7P	96545-95-8P	96545-96-9P	96545-97-0P
96572-60-0P	96572-61-1P	96572-62-2P	96572-63-3P	96572-64-4P
96611-45-9P	96906-19-3P			

(preparation and insecticidal activity of)

L37 ANSWER 29 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1983:125621 HCAPLUS Full-text  
 DOCUMENT NUMBER: 98:125621  
 TITLE: Nitroarylalkylsulfone derivatives as gametocides  
 INVENTOR(S): Fankhauser, Ernst; Sturm, Elmar  
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.  
 SOURCE: Eur. Pat. Appl., 57 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 63101	A1	19821020	EP 1982-810152 -->	19820406
EP 63101 R: AT, BE, CH, DE, FR, IT, NL US 4459152	B1 A	19870401 19840710	US 1982-365684 -->	19820405
AT 26260	T	19870415	AT 1982-810152 -->	19820406
GB 2102782	A	19830209	GB 1982-10563 -->	19820408
GB 2102782 CA 1189341	B A1	19841017 19850625	CA 1982-400724 -->	19820408
HU 31921	A2	19840628	HU 1982-1110 -->	19820409
IL 65478	A	19860331	IL 1982-65478 -->	19820412
AU 8282572	A	19821021	AU 1982-82572 -->	19820413
AU 547800 ZA 8202466	B2 A	19851107 19830330	ZA 1982-2466 -->	19820413
ES 511380	A1	19830701	ES 1982-511380 -->	19820413
JP 57179104	A	19821104	JP 1982-62273 -->	19820414
GB 2134114	A	19840808	GB 1984-4737 -->	19840223
GB 2134114 CA 1189536	B A2	19850327 19850625	CA 1984-457504 --> CH 1981-2478 --> EP 1982-810152 --> CA 1982-400724	19840626 A 19810414 A 19820406 A3 19820408

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 98:125621

ED Entered STN: 12 May 1984

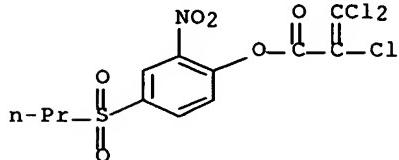
AB The title sulfones I [R1 = C1-6 alkyl; R2, R3 independently = H, C1-6 alkyl, alkoxy, or haloalkyl, halo, cyano, NO<sub>2</sub>, NH<sub>2</sub>; o-R2R3 = (CH:CH)2; R4 = H, cation, COR5 (R5 = C1-12 alkyl, alkoxy, or haloalkoxy, C2-10 (halo)alkenyl or alkynyl, C3-7 cycloalkyl, Ph, CH<sub>2</sub>Ph, (tetrahydro)furyl; cyclic R5 may be substituted], useful as gametocides, fungicides, and bactericides, were prepared Hydrolysis of 4,3-Cl(O<sub>2</sub>N)C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>Me with 30% NaOH gave 4,3-HO(O<sub>2</sub>N)C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>Me which was esterified in THF and NEt<sub>3</sub> with cyclopropanecarbonyl chloride to give the carboxylate II. At 2000 ppm, II caused complete male sterility of corn and at 0.06%, protected rice against Xanthomonas oryzae.

IT 84995-73-3P

(preparation and bactericidal activity of)

RN 84995-73-3 HCPLUS

CN 2-Propenoic acid, 2,3,3-trichloro-, 2-nitro-4-(propylsulfonyl)phenyl ester (9CI) (CA INDEX NAME)

IC C07C147-10; C07C147-12; C07D307-16; C07D307-38; A01N041-10; A01N053-00  
CC 25-12 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5

IT 84995-73-3P 84995-74-4P 84995-76-6P 84995-80-2P  
84996-05-4P 84996-06-5P

(preparation and bactericidal activity of)

IT 84995-71-1P 84995-72-2P 84995-84-6P 84995-87-9P  
84995-89-1P 84995-90-4P 84995-91-5P 84995-95-9P 84996-08-7P  
84996-09-8P

(preparation and gametocidal, fungicidal, and bactericidal activity of)

L37 ANSWER 30 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1982:491203 HCPLUS Full-text

DOCUMENT NUMBER: 97:91203

TITLE: Trichloroalkene derivatives as fungicides.

PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57018646	A	19820130	JP 1980-93272	19800710

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PRIORITY APPLN. INFO.:

JP 1980-93272

A 19800710

&lt;--

OTHER SOURCE(S): CASREACT 97:91203

ED Entered STN: 12 May 1984

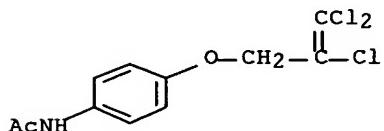
AB Twenty-nine Cl<sub>2</sub>C:CCl<sub>2</sub>R (I, Z = CH<sub>2</sub>, CO, etc.; R = H<sub>2</sub>NCH<sub>2</sub>H<sub>4</sub>O, benzothiazolyloxy, substituted acryloyloxy, etc.), effective fungicides against *Piricularia oryzae*, were prepared. Thus, 22.5 g Cl<sub>2</sub>C:CClCH<sub>2</sub>Br was added to a mixture of 15.1 g 4-AcNHCH<sub>2</sub>H<sub>4</sub>OH and 13.8 g K<sub>2</sub>CO<sub>3</sub> in DMF at room temperature and the mixture heated 6 h at 100° to give 4-AcNHCH<sub>2</sub>H<sub>4</sub>OCH<sub>2</sub>CCl:CCl<sub>2</sub>, which (25 g) was refluxed with 250 mL concentrated HCl in EtOH 5 h to give 20 g I (Z = CH<sub>2</sub>, R = 4-H<sub>2</sub>NCH<sub>2</sub>H<sub>4</sub>O).

IT 82699-78-3P

(preparation and hydrolysis of)

RN 82699-78-3 HCPLUS

CN Acetamide, N-[4-[(2,3,3-trichloro-2-propenyl)oxy]phenyl]- (9CI) (CA INDEX NAME)



IC C07C057-52; A01N033-02; A01N033-26; A01N037-02; A01N037-06; A01N037-22; A01N041-12; A01N043-74; A01N047-12; A01N057-10; C07C059-70; C07C069-63; C07C069-65; C07C069-708; C07C087-60; C07C093-14; C07C093-26; C07C103-365; C07C103-56; C07C109-04

CC 21-3 (General Organic Chemistry)  
Section cross-reference(s): 5, 28

IT 82699-78-3P

(preparation and hydrolysis of)

L37 ANSWER 31 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:110708 HCPLUS Full-text

DOCUMENT NUMBER: 92:110708

TITLE: Substituted N-phenyl-N'-fluorobenzoylureas and their use as pesticides

INVENTOR(S): Ehrenfreund, Josef

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Eur. Pat. Appl., 23 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 4030	A2	19790919	EP 1979-100599	19790301
			<--	
EP 4030	A3	19791017		
EP 4030	B1	19811230		
R: BE, CH, DE, FR, GB, IT, NL				
US 4262020	A	19810414	US 1979-16867	19790302
			<--	
CA 1111068	A1	19811020	CA 1979-323067	19790309

ES 478518	A1	19800116	ES 1979-478518 <-- ZA 1979-1134	19790312
ZA 7901134	A	19800430	ZA 1979-1134 <--	19790312
AT 7901847	A	19810415	AT 1979-1847 <--	19790312
AT 364674	B	19811110		
IL 56857	A	19830615	IL 1979-56857 <--	19790312
AU 7945032	A	19790920	AU 1979-45032 <--	19790313
AU 525517	B2	19821111		
JP 54128544	A	19791005	JP 1979-29310 <--	19790313
BR 7901531	A	19791016	BR 1979-1531 <--	19790313
PRIORITY APPLN. INFO.:			CH 1978-2700 <-- CH 1979-884 <--	19780313 19790130

ED Entered STN: 12 May 1984

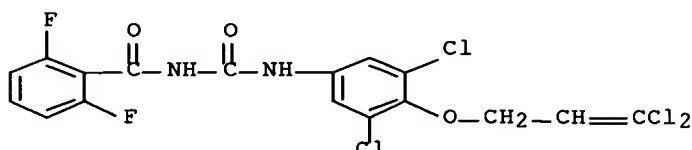
AB Thirty-one title compds. I (R = C2-3 alkenyl, mono- or dichlorinated C2-4 alkenyl, propargyl; R1 and R2 independently = H or Cl; R3 = H or F) were prepared as insecticides (no data). Thus, 3 g 2,6-F2C6H3CONCO in 10 mL Et2O were added dropwise to 3.3 g 3,5,4-C12(ClCH:CHCH2O)C6H2NH2 in 30 mL Et2O at room temperature, and the mixture was kept to precipitation I (R = ClCH:CHCH2, R1 = R2 = Cl, R3 = F).

IT **72837-79-7P**

(preparation of, as insecticides)

RN 72837-79-7 HCPLUS

CN Benzamide, N-[[[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



IC C07C127-22; A01N009-20

CC 25-21 (Noncondensed Aromatic Compounds)

Section cross-reference(s): 5

IT 72837-76-4P	72837-77-5P	72837-78-6P	<b>72837-79-7P</b>	
72837-80-0P	72837-81-1P	72837-82-2P	72837-83-3P	72837-84-4P
72837-85-5P	72837-86-6P	72837-87-7P	72837-88-8P	72837-89-9P
72837-90-2P	72837-91-3P	72837-92-4P	72837-93-5P	72837-94-6P
72837-95-7P	72837-96-8P	72837-97-9P	72837-98-0P	72837-99-1P
72838-00-7P	72838-01-8P	72838-02-9P	72838-03-0P	72838-04-1P

(preparation of, as insecticides)

L37 ANSWER 32 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:203730 HCPLUS Full-text

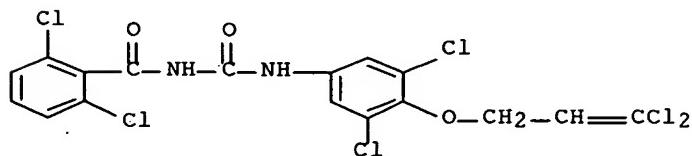
DOCUMENT NUMBER: 90:203730

TITLE: N-Phenyl-N'-benzoylureas as insecticides

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

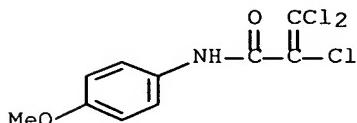
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54027538	A	19790301	JP 1978-92460 -->	19780728
EP 1203	A1	19790404	EP 1978-100446 -->	19780720
EP 1203 R: BE, CH, DE, FR, GB, NL	B1	19800903		
US 4162330	A	19790724	US 1978-927444 -->	19780724
CA 1099740	A1	19810421	CA 1978-308226 -->	19780726
IL 55222	A	19830515	IL 1978-55222 -->	19780726
ES 472128	A1	19790316	ES 1978-472128 -->	19780727
BR 7804862	A	19790410	BR 1978-4862 -->	19780727
ZA 7804271	A	19790725	ZA 1978-4271 -->	19780727
AU 7838404	A	19800131	AU 1978-38404 -->	19780727
AU 523532	B2	19820805		
AT 7805484	A	19810215	AT 1978-5484 -->	19780727
AT 364195	B	19810925		
PRIORITY APPLN. INFO.:			CH 1977-9349 -->	A 19770728
			CH 1978-7101 -->	A 19780629

- ED Entered STN: 12 May 1984  
 AB N-Phenyl-N'-benzoylureas (I; R = allyl, chloroallyl, chlorovinyl, propargyl; R1 = H, Cl), effective insecticides and acaricides at 0.1 weight%, were prepared by treating anilines II with benzoylisocyanates III. Thus, 3.5 g III (R1 = Cl) was added to 3.3 g II (R = allyl) in Et2O at room temperature to give I (R = allyl, R1 = Cl). Similarly prepared were 13 addnl. I.  
 IT 70298-37-2P  
 (preparation of)  
 RN 70298-37-2 HCPLUS  
 CN Benzamide, 2,6-dichloro-N-[[[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



IC C07C127-22  
 CC 25-21 (Noncondensed Aromatic Compounds)  
 Section cross-reference(s): 5  
 IT 70298-28-1P . 70298-29-2P 70298-30-5P 70298-31-6P 70298-32-7P  
 70298-33-8P 70298-34-9P 70298-35-0P 70298-36-1P  
**70298-37-2P 70298-38-3P 70298-39-4P**  
 (preparation of)

L37 ANSWER 33 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1978:424235 HCPLUS Full-text  
 DOCUMENT NUMBER: 89:24235  
 TITLE: 1,3-Dipolar addition reactions of  
 tetrachlorocyclopropene with diazoalkanes and aryl  
 azides  
 AUTHOR(S): Dehmlow, Eckehard V.; Naser-Ud-Din  
 CORPORATE SOURCE: Inst. Org. Chem., Tech. Univ. Berlin, Berlin, Fed.  
 Rep. Ger.  
 SOURCE: Journal of Chemical Research, Synopses (1978), (1), 40  
 CODEN: JRPSDC; ISSN: 0308-2342  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English/German  
 OTHER SOURCE(S): CASREACT 89:24235  
 ED Entered STN: 12 May 1984  
 AB Tetrachlorocyclopropene (I) with RCR1:N2 (R = R1 = H, Me, Ph; R = Me, EtO2C, R1 = H) gave the bicyclo compds. II as primary products. The stability of II depended on R and R1. Thus, II (R = H, Me, EtO2C, R1 = H) were not isolated but rearranged to the pyridazines III whereas II (R = R1 = Me, Ph) required heating at 95-100° before giving 3,4-dihydro-3,3-dimethyl-4,4,5,6-tetrachloropyridazine and Ph2C:CClCCl:CCl2, resp. I with 4-RC6H4N3 (R = H, NO2, OMe) gave 4-RC6H4N:CClCCl:CCl2 via the primary adducts IV.  
 IT **952-96-5P**  
 (preparation of)  
 RN 952-96-5 HCPLUS  
 CN 2-Propenamide, 2,3,3-trichloro-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 24, 23, 25  
 IT **952-96-5P** 14161-11-6P 50405-49-7P 66572-23-4P  
 66572-24-5P 66572-27-8P 66572-28-9P 66572-29-0P 66572-31-4P  
 66799-72-2P  
 (preparation of)

L37 ANSWER 34 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1977:405675 HCPLUS Full-text  
 DOCUMENT NUMBER: 87:5675  
 TITLE: Urea derivatives and their use as herbicides  
 INVENTOR(S): Scherer, Otto; Horlein, Gerhard; Schonowsky,  
 Hubert  
 PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.

SOURCE: U.S., 43 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4013452	A	19770322	US 1975-597671 -->	19750721
US 3937726	A	19760210	US 1970-40704 -->	19700526
PRIORITY APPLN. INFO.:			US 1967-628843 -->	A2 19670406
			US 1969-799088 -->	A2 19690213
			US 1969-800748 -->	A2 19690219
			US 1970-40704 -->	A3 19700526
			DE 1966-F48990 -->	A 19660422
			DE 1966-F48991 -->	A 19660422
			DE 1966-F50877 -->	A 19661208
			DE 1966-F50938 -->	A 19661214
			DE 1966-1668116 -->	A 19680316
			DE 1967-1768002 -->	A 19680320

ED: Entered STN: 12 May 1984

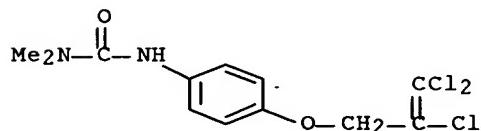
AB: [(Haloalkoxy)phenyl]ureas (RO)R1R2C6H2NHCONR3R4 (I; R = haloalkyl, haloalkenyl, or halocycloalkenyl; R1 = H, Br, Cl, alkyl, CF<sub>3</sub>, MeO, or haloalkoxy; R2 = H or Me; R3 = H or alkyl; R4 = alkyl or alkoxy) (143) were prepared by known methods, e.g., by the addition of aryl isocyanates to amines. Extensive data on the herbicidal properties of I were given.

IT: 23823-32-7P

(preparation of)

RN: 23823-32-7 HCPLUS

CN: Urea, N,N-dimethyl-N'-(4-[(2,3,3-trichloro-2-propenyl)oxy]phenyl)-(9CI) (CA INDEX NAME)



IC: A01N009-20

INCL: 071120000

CC: 25-21 (Noncondensed Aromatic Compounds)

Section cross-reference(s): 5

IT: 403-56-5P 403-61-2P 405-44-7P 713-62-2P 722-33-8P 831-75-4P

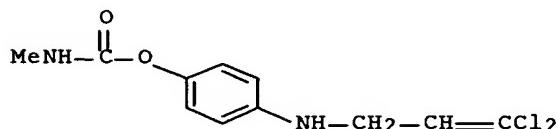
1644-21-9P	23823-25-8P	23823-26-9P	23823-27-0P	23823-28-1P
23823-29-2P	23823-30-5P	23823-31-6P	<b>23823-32-7P</b>	
<b>23823-33-8P</b>	23823-34-9P	23823-35-0P	23823-36-1P	
<b>23823-37-2P</b>	<b>23823-38-3P</b>	<b>23823-39-4P</b>		
23831-23-4P	23831-24-5P	23831-25-6P	23831-26-7P	23831-27-8P
23831-28-9P	23831-29-0P	23831-30-3P	23831-31-4P	23831-32-5P
23831-33-6P	23831-34-7P	23831-35-8P	23831-36-9P	23831-37-0P
23831-38-1P	23831-39-2P	23831-40-5P	23831-41-6P	23831-42-7P
23831-43-8P	23831-44-9P	23831-45-0P	23831-46-1P	23831-64-3P
<b>23831-65-4P</b>	23831-66-5P	23831-67-6P	23831-68-7P	
23831-69-8P	23831-70-1P	23831-71-2P	23831-72-3P	23831-73-4P
23831-74-5P	23831-75-6P	23831-76-7P	23831-78-9P	23831-79-0P
23831-80-3P	23831-81-4P	23831-82-5P	23831-83-6P	23831-84-7P
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23831-95-0P	23831-96-1P	23831-97-2P	23831-98-3P	23831-99-4P
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23832-10-2P	23832-11-3P	23832-12-4P	23832-13-5P	23845-81-0P
23845-82-1P	25033-36-7P	27692-35-9P	27842-84-8P	27842-85-9P
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27842-92-8P	27842-93-9P	27842-94-0P	27842-95-1P	27842-96-2P
27869-28-9P	27869-29-0P	27954-28-5P	27954-29-6P	27954-30-9P
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27954-36-5P	27954-37-6P	27954-38-7P	27954-39-8P	27954-40-1P
27954-41-2P	27954-42-3P	27954-43-4P	27954-44-5P	27954-45-6P
27954-46-7P	27954-47-8P	27954-48-9P	27954-49-0P	27954-50-3P
27954-51-4P	27954-52-5P	27954-53-6P	27954-54-7P	27954-55-8P
27954-56-9P	27954-57-0P	27954-58-1P	28002-00-8P	28002-01-9P
28002-02-0P	28120-44-7P	28202-30-4P	28202-32-6P	28309-11-7P
39211-47-7P	39211-50-2P	39211-51-3P	39211-59-1P	39211-60-4P
39211-61-5P	40888-27-5P	40888-28-6P	51707-77-8P	51707-86-9P
52328-79-7P	52328-80-0P	52328-81-1P	60984-86-3P	60984-87-4P
60984-88-5P	60984-89-6P	60984-90-9P	60984-91-0P	60984-92-1P
60984-93-2P	60984-94-3P	60984-95-4P	60984-96-5P	60984-97-6P
60984-98-7P	60985-00-4P	60985-01-5P	60985-02-6P	60985-03-7P
60985-04-8P	60985-05-9P	60985-06-0P	60985-07-1P	60985-08-2P
60985-09-3P	60985-10-6P	60985-12-8P	60985-17-3P	60985-18-4P
60985-19-5P	60985-20-8P	60985-21-9P	63022-64-0P	63022-65-1P
(preparation of)				
IT	27842-91-7	51736-49-3	52267-55-7	52267-56-8
	55225-92-8	55225-93-9	55225-95-1	55225-96-2
	55225-98-4	55226-04-5	58417-16-6	60984-77-2
	60985-27-5	60985-28-6	60985-29-7	<b>60985-33-3</b>
	<b>60985-34-4</b>	60985-36-6	60985-38-8	60985-39-9
	60985-42-4	60985-43-5	60985-44-6	60985-46-8
	60985-48-0	60985-49-1	60985-50-4	60985-52-6
	60985-55-9	60985-57-1	60985-59-3	60985-61-7
(reaction of, with amines)				

L37 ANSWER 35 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1977:72252 HCPLUS Full-text  
 DOCUMENT NUMBER: 86:72252  
 TITLE: Insecticidal N-(polychloroallyl)aminophenols  
 INVENTOR(S): Piccardi, Paolo; Paolucci, Paride; Gozzo, Franco;  
 Longoni, Angelo; Dongiovanni, Vincenzo; Renis,  
 Giovanni  
 PATENT ASSIGNEE(S): Montedison S.p.A., Italy  
 SOURCE: Ger. Offen., 32 pp.  
 CODEN: GWXXBX

DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2618632	A1	19761111	DE 1976-2618632 -->	19760428
NL 7604458	A	19761104	NL 1976-4458 -->	19760427
JP 51133250	A	19761118	JP 1976-47958 -->	19760428
BR 7602661	A	19761109	BR 1976-2661 -->	19760429
FR 2309520	A1	19761126	FR 1976-12700 -->	19760429
BE 841362	A1	19761103	BE 1976-166642 -->	19760430
GB 1496622	A	19771230	GB 1976-17760 -->	19760430
US 4109011	A	19780822	US 1977-791332 -->	19770427
PRIORITY APPLN. INFO.:			IT 1975-22949 -->	A 19750502
			US 1976-680921 -->	A2 19760428

ED Entered STN: 12 May 1984  
 AB RR1(MeNHCO<sub>2</sub>)C<sub>6</sub>H<sub>2</sub>NR<sub>2</sub>CH<sub>2</sub>CR<sub>3</sub>:CCl<sub>2</sub> (I; R = R<sub>1</sub> = H, Me; R<sub>2</sub> = H, Me, Cl<sub>2</sub>C:CHCH<sub>2</sub>; R<sub>3</sub> = H, Cl, PhS) were prepared and tested for insecticidal activity. Thus, 4,3-Me(H<sub>2</sub>N)C<sub>6</sub>H<sub>3</sub>O<sub>2</sub>CNHMe was heated with Cl<sub>3</sub>CCH:CH<sub>2</sub> and KI in DMF at 50° to give 2,S--Me(MeNHCO<sub>2</sub>)C<sub>6</sub>H<sub>3</sub>NHCH<sub>2</sub>CH:CCl<sub>2</sub> (II). About 25 other I were prepared, effective as insecticides with low toxicity toward warm-blooded animals. Thus, 0.1% II gave 100% kill of Pieris brassicae.  
 IT 61749-96-0P  
 (preparation of)  
 RN 61749-96-0 HCPLUS  
 CN Phenol, 4-[(3,3-dichloro-2-propenyl)amino]-, methylcarbamate (ester) (9CI) (CA INDEX NAME)



IC C07C125-06  
 CC 25-21 (Noncondensed Aromatic Compounds)  
 Section cross-reference(s): 5  
 IT 61749-93-7P 61749-95-9P 61749-96-0P 61749-97-1P  
 61749-98-2P 61749-99-3P 61750-01-4P 61750-02-5P  
**61750-03-6P** 61750-04-7P 61750-05-8P 61750-06-9P  
 61750-07-0P 61750-08-1P 61750-09-2P 61750-10-5P  
 61750-11-6P 61750-12-7P 61750-13-8P 61750-14-9P  
**61750-15-0P** **61750-16-1P**  
 (preparation of)

L37 ANSWER 36 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1976:592415 HCPLUS Full-text  
 DOCUMENT NUMBER: 85:192415  
 TITLE: Urea derivatives and their use as herbicides  
 INVENTOR(S): Scherer, Otto; Hoerlein, Gerhard; Schoenowsky,  
 Hubert  
 PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.  
 SOURCE: U.S., 39 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3937726	A	19760210	US 1970-40704 -->	19700526
DE 1568515	A	19700305	DE 1966-F48991 -->	19660422
DE 1542874	A	19700917	DE 1966-F48990 -->	19660422
DE 1542889	A	19710121	DE 1966-F50877 -->	19661208
DE 1542889	B2	19790315		
DE 1568641	A	19700430	DE 1966-F50938 -->	19661214
NL 6703244	A	19671023	NL 1967-3244 -->	19670228
JP 50003308	B	19750203	JP 1967-12875 -->	19670302
DK 116699	B	19700202	DK 1967-1746 -->	19670330
IL 27751	A	19710526	IL 1967-27751 -->	19670407
ES 339484	A1	19680716	ES 1967-339484 -->	19670419
GB 1173208	A	19691203	GB 1967-1173208 -->	19670419
CH 486837	A	19700315	CH 1967-486837 -->	19670419
SE 325265	B	19700629	SE 1967-5611 -->	19670421
BE 697427	A	19671024	BE 1967-697427 -->	19670424
ES 349712	A1	19691001	ES 1968-349712 -->	19680124
ES 349714	A1	19691001	ES 1968-349714 -->	19680124
ES 349716	A1	19691001	ES 1968-349716 -->	19680124
DE 1768002	A	19720316	DE 1967-1768002 -->	19680320
IL 31604	A	19730629	IL 1969-31604 -->	19690212
NL 6902916	A	19690923	NL 1969-2916 -->	19690225
CH 510388	A	19710731	CH 1969-510388 -->	19690313

FR 2004063	A5	19691121	FR 1969-7319 <--	19690314
GB 1249397	A	19711013	GB 1969-1249397 <--	19690314
CS 151504	B2	19731019	CS 1969-1872 <--	19690314
RO 55818	A2	19740201	RO 1969-59375 <--	19690314
AT 291278	B	19710712	AT 1969-2653 <--	19690318
CH 509752	A	19710715	CH 1969-509752 <--	19690318
BE 730176	A	19690922	BE 1969-730176 <--	19690320
FR 2004337	A5	19691121	FR 1969-8115 <--	19690320
GB 1247102	A	19710922	GB 1969-1247102 <--	19690320
SE 342443	B	19720207	SE 1969-3886 <--	19690320
ES 386044	A1	19730316	ES 1970-386044 <--	19701130
US 4013452	A	19770322	US 1975-597671 <--	19750721
PRIORITY APPLN. INFO.:			DE 1966-F48990 <--	A 19660422
			DE 1966-F48991 <--	A 19660422
			DE 1966-F50877 <--	A 19661208
			DE 1966-F50938 <--	A 19661214
			US 1967-628843 <--	A2 19670406
			DE 1966-1668116 <--	A 19680316
			DE 1967-1768002 <--	A 19680320
			US 1969-799088 <--	A2 19690213
			US 1969-800748 <--	A2 19690219
			DE 1966-F50887 <--	A 19661208
			US 1970-40704 <--	A3 19700526

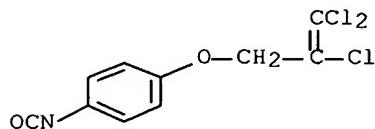
ED Entered STN: 12 May 1984

AB One hundred forty-eight phenylureas (I; R = haloalkyl, haloalkenyl, halocycloalkyl, halocycloalkenyl; R1 = H, Br, Cl, Me, Et, Me<sub>2</sub>CH, MeO, CF<sub>3</sub>; R2 = H, Cl, Me; R3 = H, C<sub>1</sub>-4 alkyl; R4 = MeO, C<sub>1</sub>-4 alkyl; n = 1, 2), which showed effective herbicidal activity, were prepared by treating aliphatic amines or hydroxylamines with aryl isocyanates or arylcarbamoyl chlorides, followed by alkylation (if needed), or by treating arylamines with alkyl isocyanates or dialkylcarbamoyl chlorides. Thus, 3-ClCHFCF<sub>2</sub>OCC<sub>6</sub>H<sub>4</sub>NCO with MeNH<sub>2</sub> gave I (R = ClCHFCF<sub>2</sub>, R<sub>1</sub> = R<sub>2</sub> = H, R<sub>4</sub> = Me, n = 1), which, at 1.2 kg/ha, gave 100% kill of wild mustard and 30% of wild oats with no damage to cotton, and 100% kill of a 5-weed mix with no damage to maize or cotton. The preparation of >50 starting materials is also described.

IT **60985-34-4**

(addition reaction of, with dimethylamine)

RN 60985-34-4 HCAPLUS  
 CN Benzene, 1-isocyanato-4-[(2,3,3-trichloro-2-propenyl)oxy]- (9CI) (CA  
 INDEX NAME)



IC C07C127-19

INCL 260553000A

CC 25-21 (Noncondensed Aromatic Compounds)

Section cross-referencé(s): 5

IT	27842-91-7	51736-49-3	52267-56-8	55226-06-7	<b>60985-34-4</b>
	60985-36-6	60985-38-8	60985-39-9	60985-43-5	60985-52-6
	60985-57-1	60985-59-3	60985-61-7	60985-62-8	
	(addition reaction of, with dimethylamine)				
IT	23823-25-8P	23823-27-0P	23823-30-5P	23823-35-0P	23823-36-1P
	<b>23823-38-3P</b>	<b>23823-39-4P</b>	23831-72-3P	23831-73-4P	
	23831-82-5P	23831-83-6P	23831-85-8P	23831-93-8P	23831-94-9P
	27842-85-9P	27842-87-1P	27842-95-1P	27842-96-2P	27954-30-9P
	27954-31-0P	27954-37-6P	27954-43-4P	27954-45-6P	27954-48-9P
	27954-49-0P	27954-50-3P	28120-44-7P	28309-11-7P	
	(preparation and herbicidal activity of)				
IT	403-72-5P	591-27-5P	3383-72-0P	23823-26-9P	23823-28-1P
	23823-29-2P	23823-31-6P	<b>23823-32-7P</b>	<b>23823-33-8P</b>	
	<b>23823-34-9P</b>	<b>23823-37-2P</b>	23831-23-4P	23831-24-5P	
	23831-25-6P	23831-26-7P	23831-27-8P	23831-28-9P	23831-29-0P
	23831-30-3P	23831-31-4P	23831-32-5P	23831-33-6P	23831-34-7P
	23831-35-8P	23831-36-9P	23831-37-0P	23831-38-1P	23831-39-2P
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	23831-45-0P	23831-46-1P	23831-64-3P	<b>23831-65-4P</b>	
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	23831-71-2P	23831-74-5P	23831-75-6P	23831-76-7P	23831-78-9P
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	60985-13-9P	60985-14-0P	60985-15-1P	60985-16-2P	60985-17-3P
	60985-18-4P	60985-19-5P	60985-20-8P	60985-21-9P	
	(preparation of)				
IT	55225-96-2	60985-29-7	60985-31-1	<b>60985-33-3</b>	
	(reaction of, with dimethylamine)				

DOCUMENT NUMBER: 80:104747  
 TITLE: Halogenated (alkoxyphenyl)ureas, preparation and herbicidal activity  
 AUTHOR(S): Hoerlein, Gerhard; Schoenowsky, Hubert; Studeneer, Adolf; Langelueddeke, Peter  
 CORPORATE SOURCE: Farbwolle Hoechst A.-G., Frankfurt/M., Fed. Rep. Ger.  
 SOURCE: Zeitschrift fuer Naturforschung, Teil C: Biochemie, Biophysik, Biologie, Virologie (1973), 28(11-12), 653-61  
 CODEN: ZNFCAP; ISSN: 0341-0471

DOCUMENT TYPE: Journal  
 LANGUAGE: German

ED Entered STN: 12 May 1984

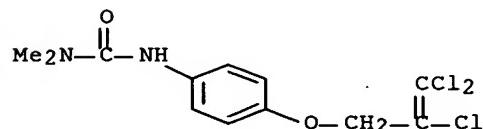
AB Fifty-six halogenated (alkoxyphenyl)ureas R(R1O), C<sub>6</sub>H<sub>3</sub>NHCONMe<sub>2</sub> (R = e.g. H, 2-, 3- or 4-Me, 3- or 4-Cl or Br, 3-CF<sub>3</sub> or 3-Et, R<sub>1</sub> = e.g. 3- or 4-ClCH<sub>2</sub>CCl<sub>2</sub>, 3- or 4-Cl<sub>2</sub>CHCF<sub>3</sub>, or 4-CF<sub>2</sub>Cl), prepared by known methods, were screened for their herbicidal activity. Thus, very good selective herbicidal activity in cotton cultures was shown by N-[3-(1,1,2,2-tetrafluoroethoxy)phenyl]-N',N'-dimethylurea [27954-37-6] and N-[3-chloro-4-(difluoromethoxy)phenyl]-N',N'-dimethylurea [39139-11-2], at 0.5-2 kg/ha.

IT 23823-32-7P

(preparation of)

RN 23823-32-7 HCPLUS

CN Urea, N,N-dimethyl-N'-(4-[(2,3,3-trichloro-2-propenyl)oxy]phenyl)-(9CI) (CA INDEX NAME)



CC 5-3 (Agrochemicals)

IT 403-56-5P 403-72-5P 23823-27-0P 23823-28-1P 23823-32-7P

**23823-33-8P 23823-34-9P 23823-35-0P 23823-37-2P**

**23823-38-3P 23823-39-4P 23831-23-4P 23831-24-5P**

23831-25-6P 23831-26-7P 23831-27-8P 23831-29-0P 23831-30-3P

23831-31-4P 23831-32-5P 23831-35-8P 23831-37-0P 23831-39-2P

23831-40-5P 23831-42-7P 23831-44-9P 23831-46-1P

**23831-65-4P 23831-68-7P 23831-69-8P 23831-70-1P**

23831-72-3P 23831-75-6P 23831-76-7P 23831-79-0P 23831-83-6P

23831-86-9P 23831-87-0P 23831-88-1P 23831-89-2P 23831-90-5P

23831-92-7P 23831-96-1P 23831-97-2P 23832-00-0P 23832-02-2P

23832-03-3P 23832-05-5P 23832-07-7P 23832-08-8P 23832-09-9P

23832-10-2P 23832-11-3P 23832-13-5P 23845-81-0P 27842-84-8P

27842-87-1P 27842-88-2P 27842-90-6P 27842-92-8P 27842-94-0P

27842-96-2P 27869-28-9P 27954-32-1P 27954-36-5P 27954-39-8P

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35037-70-8P 35078-32-1P 35078-34-3P 39065-87-7P 39065-90-2P

39065-97-9P 39066-00-7P 39138-93-7P 39139-02-1P 39139-04-3P

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39139-32-7P 39211-60-4P 51707-72-3P 51707-73-4P 51707-74-5P

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51707-80-3P	51707-81-4P	51707-83-6P	51707-84-7P	51707-85-8P
51707-86-9P	51707-87-0P	51707-88-1P	51707-89-2P	51707-90-5P
51707-91-6P	51708-02-2P	51708-03-3P	51708-04-4P	51708-05-5P
51708-06-6P	51708-07-7P	51708-08-8P	51708-12-4P	51708-13-5P
51708-14-6P				

(preparation of)

L37 ANSWER 38 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1969:461005 HCPLUS Full-text

DOCUMENT NUMBER: 71:61005

TITLE: Herbicidal N-phenylureas

PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G.

SOURCE: Fr., 30 pp.

CODEN: FRXXAK

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1520220	----	19680405	FR 1967-103884	19670424
DE 1542889	DE		<--	
DE 1568515	DE			
DE 1568641	DE			
GB 1173208	GB			
PRIORITY APPLN. INFO.:			DE	19660422
			<--	
			DE	19661214
			<--	

ED Entered STN: 12 May 1984

AB Title compds. (I) were prepared by treating either the corresponding phenyl isocyanates (II) with the corresponding amines NHR<sub>5</sub>R<sub>6</sub>, or the corresponding anilines (III) with either Me isocyanate (IV) when R<sub>5</sub> = H and R<sub>6</sub> = Me, or dimethylcarbamic acid chloride (V) when R<sub>5</sub> = R<sub>6</sub> = Me. Thus, 200 g. gaseous NHMe<sub>2</sub> was added to a stirred solution of 1000 g. II (R<sub>2</sub> = CC<sub>12</sub>:CHCH<sub>2</sub>O; R<sub>1</sub> = R<sub>3</sub> = R<sub>4</sub> = H) in 2000 cc. absolute C<sub>6</sub>H<sub>6</sub>, to give after cooling a crystalline precipitate which was washed with some C<sub>6</sub>H<sub>6</sub>, dried, and recrystd. from petroleum ether, yielding 1100 g. I (R<sub>2</sub> = CC<sub>12</sub>:CHCH<sub>2</sub>O; R<sub>1</sub> = R<sub>3</sub> = R<sub>4</sub> = H; R<sub>5</sub> = R<sub>6</sub> = Me), m. 103-4°. Similarly prepared I are tabulated in the 1st table. IV (11 g.) was added to a stirred solution of 44 g. III (R<sub>2</sub> = CC<sub>12</sub>:CHCH<sub>2</sub>O; R<sub>1</sub> = R<sub>3</sub> = R<sub>4</sub> = H) in 100 cc. absolute C<sub>6</sub>H<sub>6</sub>. After keeping the mixture 1 hr. at 40°, the precipitate was washed with some C<sub>6</sub>H<sub>6</sub>, dried, and recrystd. from dioxane to give 34 g. I (R<sub>2</sub> = CC<sub>12</sub>:CHCH<sub>2</sub>O; R<sub>1</sub> = R<sub>3</sub> = R<sub>4</sub> = R<sub>5</sub> = H; R<sub>6</sub> = Me), m. 154-5°. Similarly prepared I (R<sub>1</sub> = R<sub>5</sub> = H; R<sub>6</sub> = Me) are tabulated in the 2nd table. V (17 g.) was added dropwise to a stirred solution of 30 g. III (R<sub>2</sub> = CHCl:CCl<sub>2</sub>O; R<sub>1</sub> = R<sub>3</sub> = R<sub>4</sub> = H) in 50 cc. absolute C<sub>6</sub>H<sub>6</sub> containing 16 g. NET<sub>3</sub>. After keeping the mixture 3 hrs. at 50°, the precipitated NET<sub>3</sub>.HCl was removed and C<sub>6</sub>H<sub>6</sub> distilled. The partially crystallized residue was crushed on a clay plate to eliminate the fatty products to give 18 g. I (R<sub>2</sub> = CHCl:CCl<sub>2</sub>O; R<sub>1</sub> = R<sub>3</sub> = R<sub>4</sub> = H; R<sub>5</sub> = R<sub>6</sub> = Me) m. 153-5°. Similarly prepared I (R<sub>5</sub> = R<sub>6</sub> = Me; R<sub>1</sub> = H) (R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, and m.p. given) were: CHCl<sub>2</sub>CF<sub>2</sub>O, H, Me, 95-6°; and Me, CHCl<sub>2</sub>CF<sub>2</sub>O, H, 117-19°. I are useful as selective herbicides and show higher activities than the known urea-based compds. such as N-[p-(p-chlorophenoxy)phenyl]-N',N'-dimethylurea (Chloroxuron).

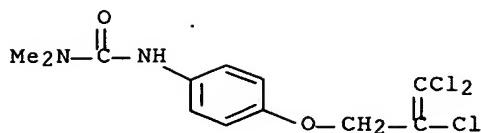
IT 23823-32-7P

(preparation of)

RN 23823-32-7 HCPLUS

CN Urea, N,N-dimethyl-N'-(4-[(2,3,3-trichloro-2-propenyl)oxy]phenyl)-

(9CI) (CA INDEX NAME)



IC C07C; A01N

CC 25 (Noncondensed Aromatic Compounds)

IT	23823-25-8P	23823-26-9P	23823-27-0P	23823-28-1P	23823-29-2P
	23823-30-5P	23823-31-6P	<b>23823-32-7P</b>	<b>23823-33-8P</b>	
	23823-34-9P	23823-35-0P	23823-36-1P	<b>23823-37-2P</b>	
	<b>23823-38-3P</b>	<b>23823-39-4P</b>	23831-23-4P	23831-24-5P	
	23831-25-6P	23831-26-7P	23831-27-8P	23831-28-9P	23831-29-0P
	23831-30-3P	23831-31-4P	23831-32-5P	23831-33-6P	23831-34-7P
	23831-35-8P	23831-36-9P	23831-37-0P	23831-38-1P	23831-39-2P
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	25033-36-7P				

(preparation of)

L37 ANSWER 39 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1967:38868 HCAPLUS Full-text

DOCUMENT NUMBER: 66:38868

TITLE: Reactive dyes

INVENTOR(S): Schweizer, August

PATENT ASSIGNEE(S): Sandoz Ltd.

SOURCE: Patentschrift (Switz.), 4 pp. Addn. to Swiss  
369532

CODEN: SWXXAS

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
CH 410238		19661031	CH 1959-1722865	19590410
			<--	

ED Entered STN: 12 May 1984

AB Addition to Swiss 369,532 (CA 60, 5671g). Azo types containing a Cl2C:CClCONH (Q) group were prepared (diazo component coupling component, and shade given): 2-H2NC6H4SO3H (I), 2,5,7-Q- (HO)C10H5SO3Na, orange; 4,2-Q(H2N)C6H3SO3H (III), 1-(2,5-dichloro-4-sulfophenyl)-3-methyl-5-pyrazolone, greenish yellow; III,

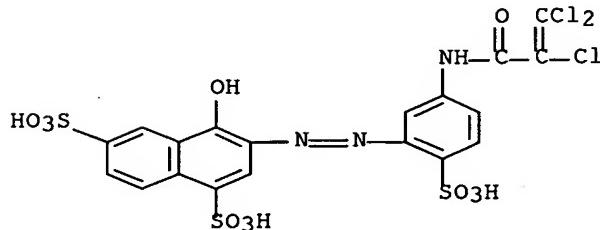
1,8,3,6,2-H2N(HO)(HO3S)2C10H3N:NC6H4Q-4, green-gray; III, 1,4,7-HOC10H5(SO3H)2, scarlet; 1,8,3,6-Q(HO)C10H4(SO3H)2, bluish red.

IT **14975-08-7P**

(preparation of)

RN 14975-08-7 HCAPLUS

CN 1,6-Naphthalenedisulfonic acid, 4-hydroxy-3-[[2-sulfo-5-(2,3,3-trichloroacrylamido)phenyl]azo]- (8CI) (CA INDEX NAME)



IC C09B

CC 40 (Dyes, Fluorescent Brightening Agents, and Photosensitizers)

IT 14228-50-3P **14975-08-7P 15072-48-7P**

**15141-51-2P** 29721-35-5P

(preparation of)

L37 ANSWER 40 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1967:38867 HCAPLUS Full-text

DOCUMENT NUMBER: 66:38867

TITLE: Reactive dyes

INVENTOR(S): Schweizer, August

PATENT ASSIGNEE(S): Sandoz Ltd.

SOURCE: Patentschrift (Switz.), 7 pp. Addn. to Swiss. 380264

CODEN: SWXXAS

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 410230	-----	19661031	CH 1959-71846	19590410
			<--	

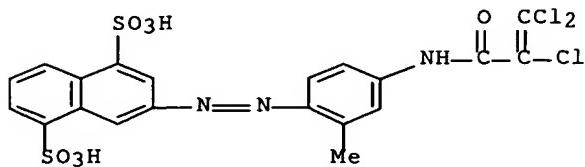
ED Entered STN: 12 May 1984

AB Addition to Swiss 380,264 (See Brit. 945,940, CA 61, 13460c). H<sub>2</sub>O-soluble, reactive dyes are prepared by treating an azo, anthraquinone, or phthalocyanine (Pc) dye containing an NH<sub>2</sub> group with CCl<sub>2</sub>:CClCOCl (I). Thus, a solution of 42.3 parts 2,5,7,6-H<sub>2</sub>N(HO)(HO<sub>3</sub>S)C<sub>10</sub>H<sub>4</sub>N:NC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H-2 in 600 parts H<sub>2</sub>O was adjusted to pH 8.0 with aqueous NaOH, cooled to 10°, 20 parts I added with stirring during 3 hrs., the mixture stirred for 2-3 hrs. at 10°, keeping the pH at 6.0-8.0 with dilute aqueous Na<sub>2</sub>CO<sub>3</sub>, NaCl added, the precipitate filtered and vacuum dried at 60° to give an orange-red powder which dyed mercerized cotton orange. Similarly, other reactive dyes were prepared from I (amino dye and shade given): 4,8,2-(NaO<sub>3</sub>S)C<sub>10</sub>H<sub>5</sub>N:NC<sub>6</sub>H<sub>3</sub>(NH<sub>2</sub>)Me-4,2, reddish yellow; II, blue, CuPc(SO<sub>3</sub>Na)<sub>x</sub>(SO<sub>2</sub>NHC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>)<sub>y</sub>, turquoise blue.

IT **14228-47-8P**

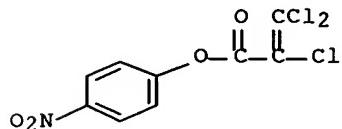
(preparation of)

RN 14228-47-8 HCAPLUS  
 CN 1,5-Naphthalenedisulfonic acid, 3-[[4-(2,3,3-trichloroacrylamido)-o-tolyl]azo]- (7CI, 8CI) (CA INDEX NAME)



IC C09B  
 CC 40 (Dyes, Fluorescent Brightening Agents, and Photosensitizers)  
 IT 147-14-8DP, Copper, [phthalocyaninato(2-)]-, [[p-(2,3,3-trichloroacrylamido)phenyl]sulfamoyl] containing derivs. 14228-46-7P  
**14228-47-8P 14228-48-9P**  
 (preparation of)

L37 ANSWER 41 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1967:28617 HCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 66:28617  
 TITLE: A new synthesis of 3-chloroflavones  
 AUTHOR(S): Newman, Melvin S.; Ferrari, John L.; Garg, C. P.  
 CORPORATE SOURCE: Ohio State Univ., Columbus, OH, USA  
 SOURCE: Journal of Heterocyclic Chemistry (1964), 1(2), 76-8  
 CODEN: JHTCAD; ISSN: 0022-152X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 AB The synthesis of a number of 3-chloroflavones (I) by a new method, involving reaction of arylmagnesium bromides with 3,4-dichlorocoumarins is described. The synthesis of 2-chloro-7-methyl-11H-benzofuro[3,2-b]benzopyran-11-one (II) is also described.  
 IT **2224-95-5P**  
 (preparation of)  
 RN 2224-95-5 HCAPLUS  
 CN Acrylic acid, trichloro-, p-nitrophenyl ester (7CI, 8CI) (CA INDEX NAME)



CC 27 (Heterocyclic Compounds (One Hetero Atom))  
 IT 92-45-5P **2224-95-5P** 4198-00-9P 13178-89-7P 13178-97-7P  
 13178-98-8P 13178-99-9P 13179-00-5P 13179-01-6P 13179-02-7P  
 13179-04-9P 13179-05-0P 13179-06-1P 13179-07-2P 13179-09-4P  
 13379-34-5P

(preparation of)

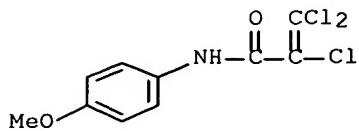
L37 ANSWER 42 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1965:43741 HCPLUS Full-text  
 DOCUMENT NUMBER: 62:43741  
 ORIGINAL REFERENCE NO.: 62:7698h,7699a-e  
 TITLE: Benzamides  
 PATENT ASSIGNEE(S): Egyesult Gyogyszer es Tapszergyar  
 SOURCE: 18 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Unavailable  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6403028		19640922	NL 1964-3028 -->	19640320
PRIORITY APPLN. INFO.:			HU -->	19630321

ED Entered STN: 22 Apr 2001

AB Benzamides (I), prepared from II, were useful as hypnotic and anticonvulsive agents with low toxicity; some were tranquilizers. To a solution of 7 g. 3,5-dimethoxy-4-ethoxybenzoyl chloride in 40 ml. dry CHCl<sub>3</sub> was added with stirring under cooling in ice 6 ml. morpholine, and the mixture refluxed 1 hr. and worked up to yield 5.8 g. N-(3,5-dimethoxy-4-ethoxybenzoyl)morpholine (III), m. 88-90° (acetone-ligroine). To a boiling mixture of 8.55 g. N-(3,5-dimethoxy-4-hydroxybenzoyl)morpholine, 5.6 g. dry K<sub>2</sub>CO<sub>3</sub>, and 45 ml. butanone was added with stirring a solution of 5.1 ml. Et<sub>2</sub>SO<sub>4</sub> in 10 ml. BuOH, and the mixture refluxed 15 hrs. to yield 5.7 g. III. A mixture of 20 g. 3,5-dimethoxy-4-allyloxybenzoic acid, 20 ml. C<sub>6</sub>H<sub>6</sub>, and 20 ml. SOCl<sub>2</sub> was refluxed to yield 18.15 g. 3,5-dimethoxy-4-allyloxybenzoyl chloride (IV), m. 60-2° (petr. ether). A solution of 5.2 g. IV in 35 ml. dry CHCl<sub>3</sub> was treated with NH<sub>3</sub> to yield 4.7 g. 3,5-dimethoxy-4-allyloxybenzamide, m. 162-4° (50% MeOH). Similarly were prepared: 3,5-dimethoxy-4-allyloxybenzoic acid methylamide, m. 122-4° (EtOAc-ligroine); N-(3,5-dimethoxy-4-allyloxybenzoyl)-1,2,3,4-tetrahydroquinoline, m. 83-4° (EtOAc-ligroine); N-(3,5-dimethoxy-4-allyloxybenzoyl)glycine diethylamide, m. 109-11° (EtOAc-ligroine); and N-(3,5-dimethoxy-4-allyloxybenzoyl)-N'-butylurea, m. 83-5° (EtOAc-ligroine). To a mixture of 53 g. 3,5-dimethoxy-4-hydroxybenzoic acid Me ester and 34 ml. BuBr was added a solution of 6.95 g. Na in 300 ml. BuOH, the mixture refluxed 15 hrs. with stirring, and the crude product in 460 ml. MeOH refluxed 1.5 hrs. with 29 ml. 43.8% KOH to yield 45.85 g. 3,5-dimethoxy-4-butoxybenzoic acid (V), m. 107-9° (30% MeOH). A mixture of 10 g. V, 10 ml. C<sub>6</sub>H<sub>6</sub>, and 10 ml. SOCl<sub>2</sub> was refluxed, excess SOCl<sub>2</sub> evaporated, and the residue in 30 ml. C<sub>6</sub>H<sub>6</sub> treated with 150 ml. concentrated NH<sub>4</sub>OH to yield 9.33 g. V amide, m. 143-5° (EtOAc-ligroine). Similarly were prepared: 3,5-dimethoxy-4-isobutoxybenzoic acid, m. 123-5° (30% MeOH) [amide m. 156-8° (EtOAc-ligroine); diethylamide was an oil]; N-(3,5-dimethoxy-4-isobutoxybenzoyl)morpholine, m. 76-8° (acetone-ligroine) (2-methylmorpholine analog was an oil); 3,5-dimethoxy-4-sec-butoxybenzoic acid, m. 127-8° [N-(3,5-dimethoxy-4-sec-butoxybenzoyl)morpholine was an oil]; 3,5-dimethoxy-4-(cyclohex-2-en-1-yl)oxybenzoic acid, m. 163-5° (30% MeOH) [amide m. 161-3° (EtOH)]; 3,5-dimethoxy-4-(2-methoxyethoxy)benzoic acid, m. 109-11° (EtOH-H<sub>2</sub>O) [amide m. 125-6° (25% EtOH)]; 3-methoxy-4-allyloxy-5-chlorobenzoic acid, m. 125-6° (EtOAc-ligroine) [amide m. 130-1° (EtOAc-ligroine)]; 3-methoxy-4-butoxy-5-chlorobenzoic acid, m. 109-10° (C<sub>6</sub>H<sub>6</sub>) [amide m. 122-4° (EtOAc-ligroine)]; 3-methoxy-4-allyloxy-5-bromobenzoic acid, m. 132-4° (EtOAc-ligroine) [amide m. 133-5°]; 3-methoxy-4-butoxy-5-bromobenzoic acid, m. 119-21° (EtOAc-ligroine) [amide m. 130-2° (EtOAc-ligroine)]; 3,5-dibromo-4-allyloxybenzoic acid, m. 176-8° (EtOAc) [amide m.

140-20 (EtOH)]; 3,5-dibromo-4-butoxybenzoic acid, m. 142-3° (EtOAc-ligroine) [amide m. 138-40° (EtOAc-ligroine)]; and N-(3,5-dimethoxy-4-allyloxybenzoyl)-2-methoxyethylamine, m. 96-8° (EtOAc-ligroine).  
IT 952-96-5P, p-Acrylaniside, 2,3,3-trichloro-  
(preparation of)  
RN 952-96-5 HCAPLUS  
CN 2-Propenamide, 2,3,3-trichloro-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



IC C07C; C07D  
CC 35 (Noncondensed Aromatic Compounds)  
IT 153-71-9P, Benzamide, 4-isobutoxy-3,5-dimethoxy- 153-73-1P,  
Benzamide, 4-butoxy-3,5-dimethoxy- 304-22-3P, Benzamide,  
4-(allyloxy)-3,5-dimethoxy- 948-10-7P, Benzoic acid,  
4-(allyloxy)-3,5-dibromo- 951-45-1P, Benzoic acid,  
4-(allyloxy)-3-bromo-5-methoxy- 951-46-2P, Benzamide,  
4-(allyloxy)-3-chloro-5-methoxy- 951-50-8P, Benzamide,  
3,5-dibromo-4-butoxy- 952-96-5P, p-Acrylaniside,  
2,3,3-trichloro- 954-85-8P, Benzoyl chloride, 4-(allyloxy)-3,5-dimethoxy- 955-33-9P, Benzamide, 3-bromo-4-butoxy-5-methoxy- 955-34-0P, Benzoic acid, 3-bromo-4-butoxy-5-methoxy- 955-35-1P, Benzamide, 4-butoxy-3-chloro-5-methoxy- 955-36-2P, Benzoic acid,  
4-butoxy-3-chloro-5-methoxy- 958-20-3P, Benzoic acid,  
4-sec-butoxy-3,5-dimethoxy- 958-25-8P, Benzoic acid,  
4-isobutoxy-3,5-dimethoxy- 958-26-9P, Benzamide,  
3,5-dimethoxy-4-(2-methoxyethoxy)- 958-27-0P, Benzoic acid,  
3,5-dimethoxy-4-(2-methoxyethoxy)- 958-28-1P, Benzamide,  
4-(allyloxy)-3,5-dimethoxy-N-methyl- 964-31-8P, Benzamide,  
4-(2-cyclohexen-1-yloxy)-3,5-dimethoxy- 967-11-3P, Morpholine,  
4-(4-ethoxy-3,5-dimethoxybenzoyl)- 973-47-7P, Morpholine,  
4-(4-isobutoxy-3,5-dimethoxybenzoyl)- 978-14-3P, Benzamide,  
4-(allyloxy)-N-[(diethylcarbamoyl)methyl]-3,5-dimethoxy- 979-82-8P,  
Quinoline, 1-[4-(allyloxy)-3,5-dimethoxybenzoyl]-1,2,3,4-tetrahydro- 1016-32-6P, Benzamide, 4-(allyloxy)-3,5-dibromo- 1019-23-4P,  
Benzamide, 4-(allyloxy)-3-bromo-5-methoxy- 1019-24-5P, Benzoic acid,  
4-(allyloxy)-3-chloro-5-methoxy- 1032-70-8P, Benzoic acid,  
4-(2-cyclohexen-1-yloxy)-3,5-dimethoxy- 1046-97-5P, Urea,  
1-[4-(allyloxy)-3,5-dimethoxybenzoyl]-3-butyl- 1147-84-8P, Benzoic acid, 4-butoxy-3,5-dimethoxy- 6648-89-1P, Benzoic acid,  
3,5-dibromo-4-butoxy-  
(preparation of)

L37 ANSWER 43 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1965:43740 HCAPLUS Full-text  
DOCUMENT NUMBER: 62:43740  
ORIGINAL REFERENCE NO.: 62:7698g-h  
TITLE: Substituted trichloroacrylic acid amides  
INVENTOR(S): Ettel, Viktor; Myska, Jaromir; Stanek, Jan  
SOURCE: 3 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 111208		19640615	CS	19630111
			<--	
PRIORITY APPLN. INFO.:			CS	19630111
			<--	

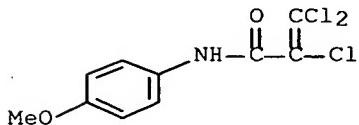
ED Entered STN: 22 Apr 2001

AB Adding dropwise with stirring 0.062 mole a substituted aniline derivative in 120 ml. dry C<sub>6</sub>H<sub>6</sub> to 0.031 mole CCl<sub>2</sub>:CClCOCl in 60 ml. C<sub>6</sub>H<sub>6</sub> and heating the mixture 30 min. on a boiling water bath gives the following title compds. showing fungicidal properties [amide, % yield, m.p., and effective dose (E.D.50) in mg./l., determined against Neurospora sitophila given]: 2-chloroanilide, --, 70°, 9; 3-chloroanilide, 80.5, 95°, 142; 2,4-dichloroanilide, --, 118.5°, 186; 3,4-dichloroanilide, --, 129.5°, 626; 4-methylanilide, --, 105.5°, 2000; 2-nitroanilide, --, 115.5°, 22; 3-nitroanilide, --, 122°, 81; 4-nitroanilide, --, 188°, 19; 2-nitro-4-methylanilide, 68.5, 123°, 212; 4-methoxyanilide, --, 131°, --. In a 0.001% aqueous solution the above compds. were devoid of herbicidal effects in Sinapis alba.

IT 952-96-5P, p-Acrylanisidine, 2,3,3-trichloro-  
(preparation of)

RN 952-96-5 HCPLUS

CN 2-Propenamide, 2,3,3-trichloro-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



IC C07C

CC 35 (Noncondensed Aromatic Compounds)

IT 949-35-9P, Acrylanilide, 2,2',3,3-tetrachloro- 949-53-1P,  
Acrylanilide, 2,3,3,3'-tetrachloro- 949-66-6P, p-Acrylotoluidide,  
2,3,3-trichloro- 952-96-5P, p-Acrylanisidine,  
2,3,3-trichloro- 955-51-1P, Acrylanilide, 2,3,3-trichloro-2'-nitro-  
956-51-4P, Acrylanilide, 2,3,3-trichloro-3'-nitro- 956-57-0P  
, Acrylanilide, 2,3,3-trichloro-4'-nitro- 958-86-1P,  
p-Acrylotoluidide, 2,3,3-trichloro-2'-nitro- 1083-38-1P,  
Acrylanilide, 2,2',3,3,4'-pentachloro- 1212-10-8P, Acrylanilide,  
2,3,3,3',4'-pentachloro-  
(preparation of)

L37 ANSWER 44 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1965:36647 HCPLUS Full-text

DOCUMENT NUMBER: 62:36647

ORIGINAL REFERENCE NO.: 62:6437c-e

TITLE: Esters of trichloroacrylic acid

INVENTOR(S): Stanek, Jan; Myska, Jaromir; Ettel, Viktor

SOURCE: 3 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

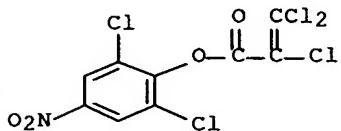
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 111209		19640615	CS	19630111
			<--	
PRIORITY APPLN. INFO.:			CS	19630111
			<--	

ED Entered STN: 22 Apr 2001

AB Title compds., for use as fungicides, are obtained by treating a solution of 0.01 mole phenol derivative in 80 ml. C<sub>6</sub>H<sub>6</sub> and 0.79 g. pyridine dropwise with stirring and cooling with 0.01 mole CCl<sub>2</sub>:CClCOCl in 30 ml. C<sub>6</sub>H<sub>6</sub> and stirring the mixture 2 hrs. [the substituted aryl ester, % yield, b.p., and effective dose (E.D.50) given]: 2,6-dichlorophenyl, 71.5, 70.5°, 25; 2,4,5-trichlorophenyl, --, 103°, 45; 2,4,5,6-tetrachlorophenyl, 61, 45°, 43; pentachlorophenyl, --, 97°, 29; 2-nitrophenyl, --, 77°, 1.3; 4-nitrophenyl, --, 109.5°, 2; 2,4-dinitrophenyl, --, 110°, 0.6; 2,4-dinitro-6-methylphenyl, --, 61°, 0.4; 2,4-dinitro-6-sec-butylphenyl, --, -- (oil at 20°), --; 2,4-dichloro-6-nitrophenyl, --, 70°, 1.2; 2,6-dichloro-4-nitrophenyl, --, 70.5°, 0.6; 2,4,5-trichloro-6-nitrophenyl, 70, 102°, 2.5.

IT 2224-91-1P, Phenol, 2,6-dichloro-4-nitro-, trichloroacrylate  
(preparation of)

RN 2224-91-1 HCPLUS

CN Acrylic acid, trichloro-, 2,6-dichloro-4-nitrophenyl ester (7CI, 8CI)  
(CA INDEX NAME)

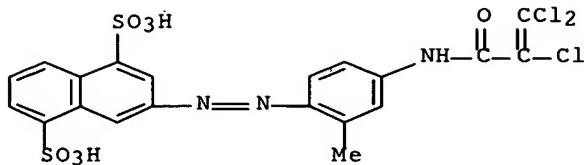
IC A01N; C07C

CC 35 (Noncondensed Aromatic Compounds)

IT 2224-90-0P, Phenol, 3,4,6-trichloro-2-nitro-, trichloroacrylate  
2224-90-0P, Acrylic acid, trichloro-, 3,4,6-trichloro-2-nitrophenyl ester  
2224-91-1P, Phenol, 2,6-dichloro-4-nitro-, trichloroacrylate  
2224-91-1P, Acrylic acid, trichloro-, 2,6-dichloro-4-nitrophenyl ester  
2224-92-2P, Acrylic acid, trichloro-, 2,4-dichloro-6-nitrophenyl ester  
2224-92-2P, Phenol, 2,4-dichloro-6-nitro-, trichloroacrylate  
2224-93-3P, Acrylic acid, trichloro-, 4,6-dinitro-o-tolyl ester  
2224-93-3P, o-Cresol, 4,6-dinitro-, trichloroacrylate  
2224-94-4P, Phenol, 2,4-dinitro-, trichloroacrylate  
2224-94-4P, Acrylic acid, trichloro-, 2,4-dinitrophenyl ester  
2224-95-5P, Acrylic acid, trichloro-, p-nitrophenyl ester  
2224-96-6P, Acrylic acid, trichloro-, o-nitrophenyl ester  
2224-97-7P, Acrylic acid, trichloro-, 2,3,4,6-tetrachlorophenyl ester  
2224-97-7P, Phenol, 2,3,4,6-tetrachloro-, trichloroacrylate  
2224-98-8P, Phenol, 2,4,5-trichloro-, trichloroacrylate  
2224-98-8P, Acrylic acid, trichloro-, 2,4,5-trichlorophenyl ester  
2224-99-9P, Phenol, 2,6-dichloro-, trichloroacrylate  
2224-99-9P, Acrylic acid, trichloro-, 2,6-dichlorophenyl ester  
3881-57-0P, Phenol, pentachloro-, trichloroacrylate  
3881-57-0P, Acrylic acid, trichloro-, pentachlorophenyl ester  
(preparation of)

L37 ANSWER 45 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1964:477078 HCPLUS Full-text  
 DOCUMENT NUMBER: 61:77078  
 ORIGINAL REFERENCE NO.: 61:13460b-f  
 TITLE: Dyes containing di- and trichloroacrylamido groups  
 INVENTOR(S): Schweizer, August; Siegrist, Hans; Benz, Jakob  
 PATENT ASSIGNEE(S): Sandoz Ltd.  
 SOURCE: 19 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Unavailable  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 945940	-----	19640108	GB 1960-9318 -->	19600316
CH 380264	-----		CH	
PRIORITY APPLN. INFO.:			CH	19590320 -->
ED	Entered STN: 22 Apr 2001			
AB	Azo, anthraquinone, and Cu phthalocyanine dyes containing Cl2C: CHCONH and Cl2C: CClCONH groups were prepared 2,5,7-H2N(HO)C10H5SO3H 47.8 in H2O 800 adjusted with 30% aqueous NaOH to pH 7, treated dropwise during 1.5 hrs. at 3° with Cl2C:CHCOCl (I) 45 in dry Me2CO 100 while maintaining the reaction mixture at pH 6-7 by the dropwise addition of 20% aqueous NaOH, and the product coupled with diazotized o-H2NC6H4SO3H 34.6 parts yielded an orange powder which dyes cotton sateen fabric orange shades. 2,4-(H2N)2C6H3SO3H (II) 94 in H2O 1500 condensed similarly with I 115 parts gave the 4Cl2C:CHCONH analog (III) of II. III 31.1 diazotized and coupled with 1-(2,5-dichloro-4-sulfophenyl)-3-methyl-5-pyrazolone 32.3 parts gave a reddish yellow dye. Di-Na 1-amino-4-(4'-aminoanilino)anthraquinone-2,3-disulfonate 10.7 condensed with I 4 parts yielded blue dyes. u phthalocyanine 57.6 and ClSO3H 270 heated 3 hrs. at 140-5°, the product in ice 300 and H2O 300 adjusted with dilute aqueous NaOH to pH 5, treated with p-AcNHCO6H4NH2 15, heated to 45-50° while maintaining with dilute aqueous NaOH at pH 5.0-5.5, basified weakly after 3 hrs. with NaOH, heated for 1 hr. at 80°, treated with 30% HCl 200, and filtered, and the product condensed with I 35 parts yielded a dark blue powder, turquoise-blue in H2O and on cotton. 2,4,8-[2,4-Me(H2N)C6H3N:N]C10H5(SO3H)2 42.1 dissolved in H2O 1200 with 30% aqueous NaOH and treated with NaOAc.3H2O 54.5 and then at 0-5° with Cl2C:CClCOCl 38 in PhCl 50 parts gave a reddish yellow dye. p O2NC6H4NH2 → 1,8,3,6-H2N(HO)C10H4(SO3H)2 (IV) reduced with Na2S, and the product 43.8 in Me2CO 100 condensed with I 29 and then coupled with diazotized III 31.1 parts gave a black powder which dyes cellulosic fibers green-gray to black shades. III 31.1 diazotized and coupled with 1,4,7-HOC10-H5(SO3H)2 30.4 parts gave a red powder which dyes cotton scarlet shades. IV 32 condensed with I 23, and the product coupled with diazotized o-HO3SC6H4NH2 17.3 parts gave a bright red dye.			
IT	14228-47-8P, 1,5-Naphthalenedisulfonic acid, 3-[(4-(2,3,3-trichloroacrylamido)-o-tolyl)azo]- (preparation of)			
RN	14228-47-8 HCPLUS			
CN	1,5-Naphthalenedisulfonic acid, 3-[(4-(2,3,3-trichloroacrylamido)-o-tolyl)azo]- (7CI, 8CI) (CA INDEX NAME)			



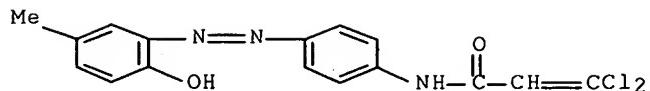
IC C09B  
 CC 46 (Dyes)  
 IT **14228-47-8P**, 1,5-Naphthalenedisulfonic acid,  
     3-[4-(2,3,3-trichloroacrylamido)-o-tolyl]azo]- 31902-21-3P,  
     Sulfanilic acid, 2-[[1-(2,5-dichloro-4-sulfophenyl)-3-methyl-5-oxo-2-  
     pyrazolin-4-yl]azo]-N-(trichloropyridazinyl)- 94375-55-0P,  
     2-Naphthalenesulfonic acid, 7-(3,3-dichloroacrylamido)-4-hydroxy-3-[(o-  
     sulfophenyl)azo]- **94375-56-1P**, 1,6-Naphthalenedisulfonic  
     acid, 3-[(5-(3,3-dichloroacrylamido)-2-sulfophenyl)azo]-4-hydroxy-  
**94375-60-7P**, Sulfanilic acid, N-(3,3-dichloroacryloyl)-2-[[1-  
     (2,5-dichloro-4-sulfophenyl)-3-methyl-5-oxo-2-pyrazolin-4-yl]azo]-  
**96170-41-1P**, 2-Anthracenesulfonic acid, 1-amino-4-[4-(3,3-  
     dichloroacrylamido)-3-sulfoanilino]-9,10-dihydro-9,10-dioxo-  
     (preparation of)

L37 ANSWER 46 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1964:425909 HCAPLUS Full-text  
 DOCUMENT NUMBER: 61:25909  
 ORIGINAL REFERENCE NO.: 61:4521d-e  
 TITLE: Azo pigment  
 INVENTOR(S): Neave, Arthur S., Jr.; Crounse, Nathan N.  
 PATENT ASSIGNEE(S): Sterling Drug Inc.  
 SOURCE: 2 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Unavailable  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 127391	----	19640331	US	19620111

PRIORITY APPLN. INFO.: US <--> 19620111  
 ED Entered STN: 22 Apr 2001  
 AB Coupling 216 lb. 3,2-HOC10H6-CONHC6H4OMe-2 with diazotized 120 lbs.  
     sulfanilamide gave I, m. 285-90° (decomposition), a fast scarlet pigment  
     insol. in H<sub>2</sub>O, dilute aqueous NaOH, and C<sub>2</sub>C<sub>14</sub>, slightly soluble in boiling  
     HCONMe<sub>2</sub>.  
 IT **94298-36-9P**, Acrylanilide, 3,3-dichloro-4'-(6-hydroxy-m-  
     tolyl)azo]-  
     (preparation of)  
 RN 94298-36-9 HCAPLUS  
 CN Acrylanilide, 3,3-dichloro-4'-(6-hydroxy-m-tolyl)azo]- (7CI) (CA  
     INDEX NAME)



INCL 260204000

CC 46 (Dyes)

IT 23850-84-2P, Acrylamide, 3,3-dichloro-N-[2-[p-[[2-chloro-4-(methylsulfonyl)phenyl]azo]-N-ethylanilino]ethyl]- 94298-36-9P  
, Acrylanilide, 3,3-dichloro-4'-(6-hydroxy-m-tolyl)azo]-  
94621-94-0P, Crotonanilide, 4-chloro-4'-(6-hydroxy-m-tolyl)azo]-  
95957-19-0P, 2-Naphth-o-anisidide, 3-hydroxy-4-[(p-sulfamoylphenyl)azo]-  
(preparation of)

L37 ANSWER 47 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1964:425908 HCPLUS Full-text

DOCUMENT NUMBER: 61:25908

ORIGINAL REFERENCE NO.: 61:4521c-d

TITLE: Azo disperse dyes of low water solubility

INVENTOR(S): Senn, Otto

PATENT ASSIGNEE(S): Sandoz Ltd.

SOURCE: 4 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3122533	-----	19640225	US 1960-55717	19600913
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CH 378440			CH	
GB 961040			GB	
PRIORITY APPLN. INFO.:			CH	19590915
			<--	

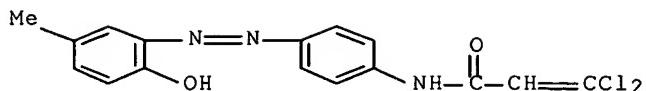
ED Entered STN: 22 Apr 2001

AB Disperse dyes for nylon having  $\geq 1$  reactive  $\text{NHCOCH:CClX}$  group, where  $X = \text{Cl}$  or  $\text{CH}_2\text{Cl}$ , are prepared. Thus, a solution of 5,2-Me(OH)C<sub>6</sub>H<sub>3</sub>N: NC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>-4 (I) 22.7 in dioxane 200 and H<sub>2</sub>O 200 is cooled to 0° and mixed with ClCH<sub>2</sub>CH:CHCOCl 17 in Me<sub>2</sub>CO 50 parts. By simultaneous addition of NaOAc a pH of 6 is maintained. The solution is stirred for 2 hrs. at 0° and diluted with 500 parts H<sub>2</sub>O to give a fast yellow dye for nylon. I (22.7 parts) treated similarly with 17 parts Cl<sub>2</sub>C:CHCOCl gives a yellow dye m. 170°. 2,4-Cl(MeSO<sub>2</sub>)C<sub>6</sub>H<sub>3</sub>NH<sub>2</sub> (20.5 parts) is diazotized and coupled with 27.2 parts Cl<sub>2</sub>C:CHCONHCH<sub>2</sub>CH<sub>2</sub>NETPh to give an orange dye.

IT 94298-36-9P, Acrylanilide, 3,3-dichloro-4'-(6-hydroxy-m-tolyl)azo]-  
(preparation of)

RN 94298-36-9 HCPLUS

CN Acrylanilide, 3,3-dichloro-4'-(6-hydroxy-m-tolyl)azo]- (7CI) (CA INDEX NAME)



INCL 260207000

CC 46 (Dyes)

IT 23850-84-2P, Acrylamide, 3,3-dichloro-N-[2-[p-[[2-chloro-4-(methylsulfonyl)phenyl]azo]-N-ethylanilino]ethyl]- **94298-36-9P**  
, Acrylanilide, 3,3-dichloro-4'-(6-hydroxy-m-tolyl)azo]-  
94621-94-0P, Crotonanilide, 4-chloro-4'-(6-hydroxy-m-tolyl)azo]-  
(preparation of)

L37 ANSWER 48 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1964:23143 HCPLUS Full-text.

DOCUMENT NUMBER: 60:23143

ORIGINAL REFERENCE NO.: 60:4054d-g

TITLE: New derivatives of trichloroacrylic acid

AUTHOR(S): Myska, J.; Stanek, S.; Ettel, V.; Marchalinova, M.

CORPORATE SOURCE: Vysoka Skola Chem.Technol., Prague

SOURCE: Collection of Czechoslovak Chemical Communications  
(1963), 28(11), 3154-8

CODEN: CCCCAK; ISSN: 0010-0765

DOCUMENT TYPE: Journal

LANGUAGE: German

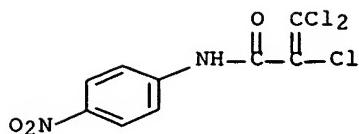
ED Entered STN: 22 Apr 2001

AB Amides,  $\text{CCl}_2:\text{CClCONHX}$ , were obtained in 65-85% yield by adding in 30 min. with stirring 0.063 mole of the resp. aromatic amine in 90-120 ml. dry  $\text{C}_6\text{H}_6$  to 6 g.  $\text{CCl}_2:\text{CClCOCl}$  in 60 ml.  $\text{C}_6\text{H}_6$ , heating the mixture 30 min. on a boiling water bath, shaking with 7.5% HCl, and washing and drying as usual (X, m.p., and fungistatic activity as E.D.50 in mg./l. given): Ph, 98°, 48; 2-Cl $\text{C}_6\text{H}_4$ , 70°, 9; 3-Cl $\text{C}_6\text{H}_4$ , 95°, 142; 4-Cl $\text{C}_6\text{H}_4$ , 146°, 710; 2,4-Cl<sub>2</sub>C $\text{C}_6\text{H}_3$ , 118.5°, 186; 2,5-Cl<sub>2</sub>C $\text{C}_6\text{H}_3$ , 130°, >2000; 3,4-Cl<sub>2</sub>C $\text{C}_6\text{H}_3$ , 129.5°, 628; 2-Me $\text{C}_6\text{H}_4$ , 134.5°, >2000; 3-Me $\text{C}_6\text{H}_4$ , 116°, -; 4-Me $\text{C}_6\text{H}_4$ , 105.5°, >2000; 2-O<sub>2</sub>N $\text{C}_6\text{H}_4$ , 115.5°, 22; 3-O<sub>2</sub>N $\text{C}_6\text{H}_4$ , 122°, 81; 4-O<sub>2</sub>N $\text{C}_6\text{H}_4$ , 188°, 19; 4,2-Me(O<sub>2</sub>N) $\text{C}_6\text{H}_3$ , 123°, 292. Similarly were obtained, in 60-80% yields, esters of type  $\text{CCl}_2:\text{CClCO}_2Y$  by treating dropwise with stirring and cooling a solution of 0.01 mole the resp. phenol and 0.01 mole pyridine in 80 ml.  $\text{C}_6\text{H}_6$  with 0.01 mole  $\text{CCl}_2:\text{CClCOCl}$  in 30 ml.  $\text{C}_6\text{H}_6$ , stirring the mixture 2 hrs., shaking successively with 5%  $\text{H}_2\text{SO}_4$ , 5% NaOH, and  $\text{H}_2\text{O}$ , working up the  $\text{C}_6\text{H}_6$ -layer as usual, and recrystg. the evaporation residue from MeOH (Y, m.p. or n<sub>20</sub>D, and E.D.50 given): Ph, 1.5555, 50; 2-Cl $\text{C}_6\text{H}_4$ , 1.5671, 21; 4-Cl $\text{C}_6\text{H}_4$ , m. 65°, 7; 2,4-Cl<sub>2</sub>C $\text{C}_6\text{H}_3$ , m. 94°, 15; 2,6-Cl<sub>2</sub>C $\text{C}_6\text{H}_3$ , m. 70.5°, 25; 2,4,5-Cl<sub>3</sub>C $\text{C}_6\text{H}_2$ , m. 103°, 45; 2,4,5,6-Cl<sub>4</sub>C $\text{C}_6\text{H}$ , m. 45°, 43; Cl<sub>5</sub>C $\text{C}_6$ , m. 97°, 29; 2-O<sub>2</sub>N $\text{C}_6\text{H}_4$ , m. 77°, 1.3; 4-O<sub>2</sub>N $\text{C}_6\text{H}_4$ , m. 109.5°, 2; 2,4-(O<sub>2</sub>N)2C $\text{C}_6\text{H}_3$ , m. 110°, 0.6; 6,2,4-Me(O<sub>2</sub>N)2C $\text{C}_6\text{H}_2$ , m. 61°, 0.4; 2,4,6-Cl<sub>2</sub>(O<sub>2</sub>N)C $\text{C}_6\text{H}_2$ , m. 70°, 1.2; 2,6,4-Cl<sub>2</sub>(O<sub>2</sub>N)C $\text{C}_6\text{H}_2$ , m. 70.5°, 0.6; 2,4,5,6-Cl<sub>3</sub>(O<sub>2</sub>N)C $\text{C}_6\text{H}$ , 102°, 2.5. The 1st 14 compds. showed no herbicidal activity in concns. up to 10 mg./l. Relationships between chemical structure and fungistatic activity are discussed.

IT **956-57-0P**, Acrylanilide, 2,3,3-trichloro-4'-nitro-  
(preparation of)

RN 956-57-0 HCPLUS

CN Acrylanilide, 2,3,3-trichloro-4'-nitro- (7CI, 8CI) (CA INDEX NAME)



CC 35 (Noncondensed Aromatic Compounds)  
IT 949-35-9P, Acrylanilide, 2,2',3,3-tetrachloro- 949-53-1P,  
Acrylanilide, 2,3,3,3'-tetrachloro- 949-66-6P, p-Acrylotoluidide,  
2,3,3-trichloro- 955-51-1P, Acrylanilide, 2,3,3-trichloro-2'-nitro-  
956-51-4P, Acrylanilide, 2,3,3-trichloro-3'-nitro- 956-57-0P  
, Acrylanilide, 2,3,3-trichloro-4'-nitro- 958-86-1P,  
p-Acrylotoluidide, 2,3,3-trichloro-2'-nitro- 1083-38-1P,  
Acrylanilide, 2,2',3,3,4'-pentachloro- 1212-10-8P, Acrylanilide,  
2,3,3,3',4'-pentachloro- 2224-90-0P, Phenol, 3,4,6-trichloro-2-nitro-  
, trichloroacrylate 2224-90-0P, Acrylic acid, trichloro-,  
3,4,6-trichloro-2-nitrophenyl ester 2224-91-1P, Phenol,  
2,6-dichloro-4-nitro-, trichloroacrylate 2224-91-1P, Acrylic  
acid, trichloro-, 2,6-dichloro-4-nitrophenyl ester 2224-92-2P,  
Acrylic acid, trichloro-, 2,4-dichloro-6-nitrophenyl ester  
2224-92-2P, Phenol, 2,4-dichloro-6-nitro-, trichloroacrylate  
2224-93-3P, o-Cresol, 4,6-dinitro-, trichloroacrylate  
2224-93-3P, Acrylic acid, trichloro-, 4,6-dinitro-o-tolyl  
ester 2224-94-4P, Acrylic acid, trichloro-,  
2,4-dinitrophenyl ester 2224-94-4P, Phenol, 2,4-dinitro-,  
trichloroacrylate 2224-95-5P, Acrylic acid, trichloro-,  
p-nitrophenyl ester 2224-96-6P, Acrylic acid, trichloro-,  
o-nitrophenyl ester 2224-97-7P, Phenol, 2,3,4,6-tetrachloro-,  
trichloroacrylate 2224-97-7P, Acrylic acid, trichloro-,  
2,3,4,6-tetrachlorophenyl ester 2224-98-8P, Acrylic acid,  
trichloro-, 2,4,5-trichlorophenyl ester 2224-98-8P, Phenol,  
2,4,5-trichloro-, trichloroacrylate 2224-99-9P, Phenol,  
2,6-dichloro-, trichloroacrylate 2224-99-9P, Acrylic acid,  
trichloro-, 2,6-dichlorophenyl ester 3881-57-0P, Acrylic acid,  
trichloro-, pentachlorophenyl ester 3881-57-0P, Phenol,  
pentachloro-, trichloroacrylate 28637-08-3P, Acrylanilide,  
2,3,3-trichloro- 55205-24-8P, Acrylic acid, trichloro-, phenyl ester  
90415-54-6P, Acrylic acid, trichloro-, o-chlorophenyl ester  
90415-55-7P, Acrylic acid, trichloro-, p-chlorophenyl ester  
90415-56-8P, Acrylanilide, 2,2',3,3,5'-pentachloro- 90483-81-1P,  
Acrylanilide, 2,3,3,4'-tetrachloro- 90766-82-8P, Benzene,  
1,2,4,5-tetrakis(bromomethyl)-3,6-dinitro- 90767-94-5P,  
o-Acrylotoluidide, 2,3,3-trichloro- 91085-91-5P, Phenol,  
2,4-dichloro-, trichloroacrylate 91085-91-5P, Acrylic acid,  
trichloro-, 2,4-dichlorophenyl ester 91329-62-3P, m-Acrylotoluidide,  
2,3,3-trichloro-  
(preparation of)

L37 ANSWER 49 OF 49 HCPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1942:10092 HCPLUS Full-text  
DOCUMENT NUMBER: 36:10092  
ORIGINAL REFERENCE NO.: 36:1596b-e  
TITLE: Synthesis of lipophilic chemotherapeutics. V.  
N4-Acylsulfanilamides  
AUTHOR(S): Bergmann, F.; Haskelberg, L.  
SOURCE: Journal of the American Chemical Society (1941), 63, 2243-5

DOCUMENT TYPE:

Journal

LANGUAGE:

Unavailable

ED Entered STN: 16 Dec 2001

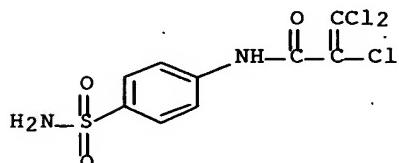
AB cf. C. A. 36, 423.1. Two methods of preparation were used: (I) H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NH<sub>2</sub> (II) (8.6 g.) in 50 cc. CHCl<sub>3</sub> and 4 g. C<sub>5</sub>H<sub>5</sub>N at 0° is treated with 9.1 g. of Cl<sub>3</sub>CCOCl in 25 cc. CHCl<sub>3</sub> and allowed to stand 12 h. at room temperature; the yield is 80%; (III) 8.6 g. II in 45 cc. AcOH and 45 cc. saturated aqueous AcONa (solution prepared by heating) is treated at -5° with 10.1 g. of heptadecenoyl chloride and allowed to stand at room temperature for 12 h.; the yield is 70%. N<sub>4</sub>-Acylsulfanilamides: dichloroacetyl (I, III), m. 218°; trichloroacetyl (I), m. 205°; bromoacetyl (I), m. 218° (decomposition); trichloroacrylyl (III), m. 258°; stearoyl (I), m. 245° (U. S. pat. 2,169,971, C. A. 34, 1134.4, gives the m. p. as 201°); oleoyl (I), m. 204°; stearoyl [Me(CH<sub>2</sub>)<sub>7</sub>C(CH<sub>2</sub>)<sub>7</sub>CO] (I), m. 189°; heptadecanoyl (I), m. 205° (decomposition); heptadecenoyl (I, III), m. 194-6°; dibromohendecanoyl (I, III), m. 173-5°; cinnamoyl (I), m. 255-7°; trans-α,β-dibromocinnamoyl (III), m. 266°; phenylpropioyl (I), m. 254°. The following N<sub>4</sub>,N<sub>4</sub>-bis(sulfanilamides) were prepared by method III, with acid chlorides of dibasic acids: isophthaloyl, adipyl and sebacyl; the yields were nearly quant. and the compds. m. above 300°. Heating 8.6 g. II and 7.2 g. of C<sub>6</sub>H<sub>4</sub>(CO)<sub>2</sub>O 1 h. at 150° gives p-sulfamylphthalanic acid, m. 338°; the tetra-Cl derivative decomp. 322°. Boiling 17.2 g. II and 22.4 g. diphenic anhydride in PrOH for 1 h. gives 35 g. of p-sulfamylidiphenanilic acid, m. 278-9° (decomposition). On mixing 34.4 g. II and 23.4 g. citraconic anhydride at 25° the temperature rose to 60°; heating 1 h. on the water bath gave p-citraconimidophenylsulfonamide, m. 210-13°.

IT 857612-33-0P, Acrylanilide, α,β,β-trichloro-p-sulfamyl-

(preparation of)

RN 857612-33-0 HCAPLUS

CN Acrylanilide, α,β,β-trichloro-p-sulfamyl- (4CI) (CA INDEX NAME)



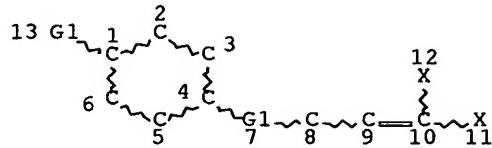
CC 10 (Organic Chemistry)

IT 5332-70-7P, Acetanilide, α-bromo-p-sulfamyl- 6720-17-8P,  
 Hendecanilide, p-sulfamyl- 6955-49-3P, Phthalanic acid,  
 4'-sulfamyl- 17122-47-3P, Acetanilide, α,α-dichloro-p-sulfamyl- 22795-59-1P, Acetanilide, α,α,α-trichloro-p-sulfamyl- 64260-77-1P, Benzenesulfonamide, p-(2,5-dihydro-3-methyl-2,5-dioxo-1-pyrryl)- 124130-70-7P, Oleanilide, p-sulfamyl- 163111-74-8P, Stearanilide, p-sulfamyl- 307339-71-5P, Adipanilide, p,p'-disulfamyl- 519017-77-7P, Isophthalanilide, 4',4''-disulfamyl- 854672-01-8P, Propiolanilide, β-phenyl-p-sulfamyl- 857612-33-0P, Acrylanilide, α,β,β-trichloro-p-sulfamyl- 858803-33-5P, Stearolanilide, p-sulfamyl- 873382-64-0P, Phthalanic acid,

3,4,5,6-tetrachloro-4'-sulfamyl- 873417-07-3P, Cinnamanilide,  
p-sulfamyl- 873419-72-8P, Diphenanilic acid, 4''-sulfamyl-  
873975-85-0P, Sebacanilide, p,p'-disulfamyl-  
(preparation of)

=> d que 126

L3 STR



VAR G1=O/N/S

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L6 STR

$G1 \equiv C$       O @ 3      N ~~~ O  
1                2                4        5

VAR G1=3/4

NODE ATTRIBUTES:

NSPEC IS RC AT 2

CONNECT IS E1 RC AT 3

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE

L7 2411 SEA FILE=REGISTRY SSS FUL L3

L10 1244 SEA FILE=REGISTRY SUB=L7 SSS FUL L6

L17 1015 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND 2-100/NR

L20 60 SEA FILE=HCAPLUS ABB=ON PLU=ON L17

L22 23 SEA FILE=HCAPLUS ABB=ON PLU=ON ZAMBACH, W?/AU

L23 3773 SEA FILE=HCAPLUS ABB=ON PLU=ON HALL, R?/AU

L24 27 SEA FILE=HCAPLUS ABB=ON PLU=ON RENOLD, P?/AU

L25 56 SEA FILE=HCAPLUS ABB=ON PLU=ON TRAH, S?/AU

L26 6 SEA FILE=HCAPLUS ABB=ON PLU=ON (L22 OR L23 OR L24 OR L25) AND L20

=> d que 143

L38 26 SEA ZAMBACH, W?/AU

L39 37 SEA RENOLD, P?/AU

L40 17 SEA TRAH, STEPHAN?/AU

L41 107 SEA HALL, ROGER?/AU

L42           36 SEA (L38 OR L39 OR L40 OR L41) AND PESTICID?  
 L43           4 SEA L42 AND KETO?

=> dup rem 126 143  
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 PROCESSING COMPLETED FOR L43  
 L44           9 DUP REM L26 L43 (1 DUPLICATE REMOVED)  
               ANSWERS '1-6' FROM FILE HCAPLUS  
               ANSWER '7' FROM FILE BIOSIS  
               ANSWERS '8-9' FROM FILE WPIX

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(FILE 'EMBASE, BIOSIS, DRUGU, MEDLINE, WPIX, JICST-EPLUS, JAPIO,  
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 L43           4 S L42 AND KETO?

=> d 1-6 ibib ed ab fhitstr hitind

L44 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1  
 ACCESSION NUMBER: 2004:1154652 HCAPLUS Full-text  
 DOCUMENT NUMBER: 142:93516  
 TITLE: Preparation of pesticidally active ketone and  
        oxime derivatives  
 INVENTOR(S): Zambach, Werner; Hall, Roger  
               Graham, Renold, Peter; Trah,  
               Stephan  
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.  
 SOURCE: PCT Int. Appl., 83 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004113273	A1	20041229	WO 2004-EP6749	20040622
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,				

GW, ML, MR, NE, SN, TD, TG  
 EP 1638924 A1 20060329 EP 2004-740174 20040622  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,  
 PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK  
 US 2006128670 A1 20060615 US 2005-560292 20051212  
 PRIORITY APPLN. INFO.: CH 2003-1096 A 20030623  
 WO 2004-EP6749 W 20040622

OTHER SOURCE(S): MARPAT 142:93516

ED Entered STN: 30 Dec 2004

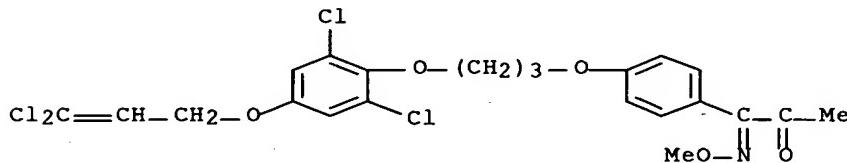
AB The title compds. I [A0-A3 = (un)substituted alkylene; Y = O, S, SO, SO<sub>2</sub>, (un)substituted NH; M = O, NOR6; X<sub>1</sub>, X<sub>2</sub> = F, Cl, Br; R<sub>1</sub>-R<sub>3</sub> = H, halo, OH, SH, CN, NO<sub>2</sub>, alkyl, haloalkyl, alkylcarbonyl, alkenyl, haloalkenyl, alkynyl, etc.; Q = O, S, SO, SO<sub>2</sub>, (un)substituted NH; W = O, S, SO, SO<sub>2</sub>, CO<sub>2</sub>, etc.; T = a bond, O, S, SO, SO<sub>2</sub>, CO<sub>2</sub>, etc.; D = CH, N; R<sub>4</sub> = H, halo, OH, SH, CN, NO<sub>2</sub>, alkyl, haloalkyl, etc.; R<sub>5</sub> = alkyl, cycloalkyl, (un)substituted NH<sub>2</sub>, etc.; R<sub>6</sub> = H, alkyl, cycloalkyl, etc.; k = 0-4; m = 1-2], were prepared E.g., a multi-step synthesis of II, starting from 2-bromo-1-(4-hydroxyphenyl)ethanone, which was more than 80% effective against *Heliothis virescens*, *Plutella xylostella*, and *Spodoptera littoralis*, was given. The invention also relates to pesticidal compns. in which the active ingredient has been selected from the compds. I and agrochem. acceptable salts thereof, and a process for the preparation of those compns. and their use, to plant propagation material treated with those compns., and a method of controlling pests.

IT 818375-28-9P

(preparation of pesticidally active ketone and oxime derivs.)

RN 818375-28-9 HCAPLUS

CN 1,2-Propanedione, 1-[4-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]phenyl]-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)



IC ICM C07C251-44

ICS C07C251-48; C07C251-54; C07C251-58; C07D261-08; C07C235-84; C07C049-84; A01N033-16; A01N035-10; A01N035-04; A01N037-18; A01N043-26

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5

IT 818375-28-9P

(preparation of pesticidally active ketone and oxime derivs.)

IT 818375-24-5P 818375-25-6P 818375-26-7P

818375-27-8P 818375-29-0P 818375-30-3P

818375-31-4P 818375-32-5P 818375-33-6P

818375-34-7P 818375-35-8P 818375-36-9P

818375-37-0P 818375-38-1P 818375-39-2P

818375-40-5P 818375-41-6P 818375-42-7P

818375-43-8P 818375-44-9P 818375-45-0P

818375-46-1P 818375-47-2P 818375-48-3P

818375-49-4P 818375-50-7P 818375-51-8P  
 818375-52-9P 818375-53-0P 818375-54-1P  
 818375-55-2P 818375-56-3P 818375-57-4P  
 818375-58-5P 818375-59-6P 818375-60-9P  
 818375-61-0P 818375-62-1P 818375-63-2P  
 818375-64-3P 818375-65-4P 818375-66-5P  
 818375-67-6P 818375-68-7P 818375-69-8P  
 818375-70-1P 818375-71-2P 818375-72-3P  
 818375-73-4P 818375-74-5P 818375-75-6P  
 818375-76-7P 818375-77-8P 818375-78-9P  
 818375-79-0P 818375-80-3P 818375-81-4P  
 818375-82-5P 818375-83-6P 818375-84-7P  
 818375-85-8P 818375-86-9P 818375-87-0P  
 818375-88-1P 818375-89-2P 818375-90-5P  
 818375-91-6P 818375-92-7P 818375-93-8P  
 818375-94-9P 818375-95-0P 818375-96-1P  
 818375-97-2P 818375-98-3P 818375-99-4P  
 818376-00-0P 818376-01-1P 818376-02-2P  
 818376-03-3P 818376-04-4P 818376-05-5P  
 818376-06-6P 818376-07-7P 818376-08-8P  
 818376-09-9P 818376-10-2P 818376-11-3P  
 818376-12-4P 818376-13-5P 818376-14-6P  
 818376-15-7P 818376-16-8P 818376-17-9P  
 818376-18-0P 818376-19-1P 818376-20-4P  
 819072-24-7P

(preparation of pesticidally active ketone and oxime derivs.)

IT 17159-98-7P 32136-81-5P, 2-Methoxy-1-(4-hydroxyphenyl)ethanone  
**669055-86-1P 818376-21-5P 818376-22-6P**  
 818376-23-7P 818376-24-8P

(preparation of pesticidally active ketone and oxime derivs.)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR  
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE  
 RE FORMAT

L44 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2005:673280 HCAPLUS Full-text  
 DOCUMENT NUMBER: 143:172877  
 TITLE: Preparation of various heterocyclic allyl  
       derivatives as pesticides  
 INVENTOR(S): Hall, Roger Graham; Trah,  
              Stephan; Zambach, Werner; Tuleja,  
              Juraj  
 PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.  
 SOURCE: PCT Int. Appl., 34 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005068445	A2	20050728	WO 2005-EP94	20050107
WO 2005068445	A3	20050922		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,  
 CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
 GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,  
 KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
 MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,  
 SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,

VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,  
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,  
 DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC,  
 NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,  
 GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1706392 A2 20061004 EP 2005-706845 20050107

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,  
 PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS

PRIORITY APPLN. INFO.: CH 2004-23 A 20040108

WO 2005-EP94 W 20050107

OTHER SOURCE(S): CASREACT 143:172877; MARPAT 143:172877

ED Entered STN: 29 Jul 2005

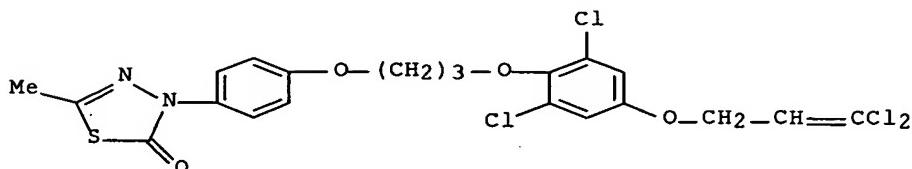
AB Title compds. I [Het = non-aromatic heterocycll; A1-3 = alkylene, cycloalkyl, etc.; A4 = alkylene bridge; D = CH, N; W = O, amino, SOO-2; etc.; T = bond, O, NH, etc.; Q = O, amino, SOO-2; Y = O, amino, SOO-2; X1-2 = F, Cl, Br; R1-2 = H, halo, CN, NO<sub>2</sub>, alkyl, haloalkyl, etc.; R3 = halo, CN, NO<sub>2</sub>, etc.; R4 = halo, CN, NO<sub>2</sub>, etc.; n = 0-3 when D = N or is 0-4 when D = CH; m = 0-2] are prepared For instance, II is prepared in several steps from 4-methoxyphenylhydrazine•HCl, pivaloyl chloride and 4-(3-bromopropan-1-yloxy)-3,5-dichloro-1-(3,3-dichloroprop-2-enyloxy)benzene. II shows good activity against Heliothis virescens.

IT 860629-18-1P

(preparation of various heterocyclic allyl derivs. as pesticides)

RN 860629-18-1 HCPLUS

CN 1,3,4-Thiadiazol-2(3H)-one, 3-[4-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]phenyl]-5-methyl- (9CI) (CA INDEX NAME)



IC ICM C07D285-12

ICS C07D271-10; C07D249-12; C07D257-04; C07D237-14; C07D241-18;  
 C07D239-36; C07D273-04; C07D233-72

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 63

IT 860629-18-1P 860629-19-2P 860629-20-5P

860629-21-6P 860629-22-7P 860629-23-8P

860629-24-9P 860629-25-0P 860629-26-1P

860629-27-2P 860629-28-3P 860629-29-4P

860629-30-7P 860629-31-8P

(preparation of various heterocyclic allyl derivs. as pesticides)

L44 ANSWER 3 OF 9 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:182604 HCPLUS Full-text

DOCUMENT NUMBER: 142:280219

TITLE: Preparation of (3,3-dihaloallyloxy)phenol derivatives as pesticides

INVENTOR(S): Zambach, Werner; Trah, Stephan

PATENT ASSIGNEE(S): ; Hall, Roger Graham; Lutz, William  
 SOURCE: Syngenta Participations A.-G., Switz.  
 PCT Int. Appl., 69 pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

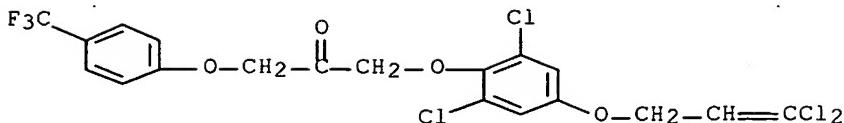
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005019147	A2	20050303	WO 2004-EP9500	20040825
WO 2005019147	A3	20050407		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1659863	A2	20060531	EP 2004-764476	20040825
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
PRIORITY APPLN. INFO.:			CH 2003-1454	A 20030826
			WO 2004-EP9500	W 20040825

OTHER SOURCE(S): MARPAT 142:280219

ED Entered STN: 04 Mar 2005

AB There are described compds. of formula (I) [wherein X1, X2 = independently F, Cl or Br; A1, A2 = a bond, (un)substituted C1-6 alkylene bridge; A3 = (un)substituted C1-6 alkylene bridge; R1, R2 halogen, OH, SH, cyano, NO2, C1-6 alkyl, C1-6 haloalkyl, C1-6 alkyl-carbonyl, C2-6 alkenyl, C2-6 haloalkenyl, C2-6 alkynyl, etc.; R3 = H, halogen, OH, SH, cyano, NO2, C1-6 alkyl, C1-6 haloalkyl, etc.; R4, R5 = H, halogen, cyano, NO2, C1-6 alkyl, C1-3 haloalkyl, etc. ; m = 1 or 2; Q, Y = O, S, SO, SO2, (un)substituted NH; W, T = a bond, O, S, SO, SO2, C(O)O, OC(O), each (un)substituted NH, CH:N-O, CONH, or NHCO; E = (un)substituted aryl or heterocyclyl] where applicable, their possible E/Z isomers, E/Z isomeric mixts. and/or tautomers, in each case in free form or in salt form. Pesticidal compns. in which the active ingredient has been selected from those compds. I and agrochem. acceptable salts thereof are also described. Thus, 74 mg 3,3-dichloro-2-(4-trifluoromethylphenyl)acrylic acid, 67 mg of bis(2-oxo-3-oxazolidinyl)phosphinic acid chloride, 53 mg Et3N, and 100 mg [3-[2,6-dichloro-4-(3,3-dichloroallyloxy)phenoxy]propyl]amine were stirred in 2 mL CH2Cl2 for 48 h at 40° to give, after workup and silica gel chromatog., 3,3-dichloro-N-[3-[2,6-dichloro-4-(3,3-dichloroallyloxy)phenoxy]propyl]-2-(4-trifluoromethylphenyl)acrylamide (II; R = Q1). II (R = Q1) and II (R = Q2) at 400 ppm with aqueous emulsion spray killed 80% Heliothis virescens caterpillars on young soybean plants.

IT 847344-39-2P  
 (intermediate; preparation of (dihaloallyloxy)phenol derivs. as pesticides)  
 RN 847344-39-2 HCPLUS  
 CN 2-Propanone, 1-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]-3-[4-(trifluoromethyl)phenoxy]-(9CI) (CA INDEX NAME)



IC ICM C07C043-00

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5, 25, 27

IT 198226-65-2P 847344-36-9P 847344-37-0P 847344-38-1P

**847344-39-2P 847344-40-5P 847344-41-6P**847344-42-7P **847344-43-8P**

(intermediate; preparation of (dihaloallyloxy)phenol derivs. as pesticides)

IT **847343-31-1P 847343-32-2P 847343-33-3P****847343-34-4P 847343-35-5P 847343-36-6P**

847343-37-7P 847343-38-8P 847343-39-9P 847343-40-2P

847343-41-3P 847343-42-4P 847343-43-5P 847343-44-6P

**847343-45-7P 847343-46-8P 847343-47-9P****847343-48-0P 847343-49-1P 847343-50-4P**847343-51-5P 847343-52-6P **847343-53-7P****847343-54-8P 847343-55-9P 847343-56-0P**

847343-57-1P 847343-58-2P 847343-59-3P

**847343-60-6P 847343-61-7P 847343-62-8P**

847343-63-9P 847343-64-0P 847343-65-1P

847343-66-2P 847343-67-3P 847343-68-4P

847343-69-5P 847343-70-8P 847343-71-9P

847343-72-0P 847343-73-1P 847343-74-2P

847343-75-3P 847343-76-4P **847343-77-5P**

847343-78-6P 847343-79-7P 847343-80-0P

847343-81-1P **847343-82-2P 847343-83-3P**847343-84-4P 847343-85-5P 847343-86-6P **847343-87-7P**

847343-88-8P 847343-89-9P 847343-90-2P 847343-91-3P

847343-92-4P 847343-93-5P 847343-94-6P 847343-95-7P

847343-96-8P 847343-97-9P 847343-98-0P 847343-99-1P

847344-00-7P **847344-01-8P 847344-02-9P 847344-03-0P****847344-05-2P 847344-06-3P 847344-07-4P****847344-08-5P 847344-09-6P 847344-10-9P**

847344-11-0P 847344-12-1P 847344-13-2P 847344-14-3P

847344-15-4P 847344-16-5P 847344-17-6P 847344-18-7P

847344-19-8P 847344-20-1P 847344-21-2P 847344-22-3P

847344-23-4P 847344-24-5P 847344-25-6P 847344-26-7P

847344-27-8P 847344-28-9P 847344-29-0P **847344-30-3P**

847344-31-4P 847344-32-5P 847344-33-6P 847344-34-7P

847344-35-8P

(preparation of (dihaloallyloxy)phenol derivs. as pesticides)

L44 ANSWER 4 OF 9 HCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:513651 HCPLUS Full-text

DOCUMENT NUMBER: 141:71344

TITLE: Preparation of dihalo-allyloxy-phenol derivatives having pesticidal activity

INVENTOR(S): Zambach, Werner; Renold, Peter  
; Hall, Roger Graham; Trah,  
Stephan

PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

SOURCE: PCT Int. Appl., 70 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052816	A1	20040624	WO 2003-EP14009	20031210
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003288248	A1	20040630	AU 2003-288248	20031210
EP 1572612	A1	20050914	EP 2003-780146	20031210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006509794	T	20060323	JP 2004-558059	20031210
US 2006014806	A1	20060119	US 2005-537444	20050602
PRIORITY APPLN. INFO.:			CH 2002-2104	A 20021211
			WO 2003-EP14009	W 20031210

OTHER SOURCE(S): MARPAT 141:71344

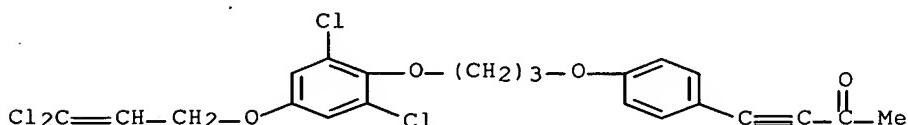
ED Entered STN: 25 Jun 2004

AB The title compds. [I; A1, A2 = a bond, alkylene; A3 = alkylene; X1, X2 = F, Cl, Br; Y = O, NR7, S, SO, SO2; R1-R3 = H, halo, OH, SH, CN, NO2, alkyl, haloalkyl, alkylcarbonyl, alkenyl; Q = O, NR5, S, SO, SO2; W = O, NR5, SO, etc.; T = a bond, O, NR5, etc.; D is CH or N; R4 = H, halogen, OH, SH, CN, NO2, etc.; R5, R7 = H, alkyl, haloalkyl, etc.; k = 1-4; m = 1-2; R10 = radical which contains O, N or S; R11 = H, alkyl or a radical which contains from 1-3 hetero atoms selected from O, N and S; or R11 together with R12 is a bond; R12 = H, alkyl, haloalkyl, alkoxyalkyl, etc.] useful for controlling pests, were prepared Thus, reacting cyanomethanephosphoric acid di-Et ester with 4-[3-[2,6-dichloro-4-(3,3-dichloroallyloxy)phenoxy]propoxy]benzaldehyde afforded II which was more than 80% effective against Heliothis virescens caterpillars, Plutella xylostella caterpillars, and Spodoptera littoralis.

IT 711012-73-6P  
 (preparation of dihalo-allyloxy-phenol derivs. having pesticidal activity)

RN 711012-73-6 HCAPLUS

CN 3-Butyn-2-one, 4-[4-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]phenyl]- (9CI) (CA INDEX NAME)



IC ICM C07C043-225  
 ICS C07C049-255; C07C049-557; C07C069-66; C07C205-32; C07C251-40;  
 C07C255-32; C07C271-16; C07D213-57; C07D263-32; C07D307-54;  
 C07D307-81; C07D333-24; C07D213-00  
 CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5  
 IT 711012-60-1P 711012-61-2P 711012-62-3P 711012-63-4P  
 711012-64-5P 711012-65-6P 711012-67-8P 711012-68-9P  
 711012-69-0P 711012-70-3P 711012-71-4P 711012-72-5P  
**711012-73-6P 711012-74-7P 711012-75-8P**  
**711012-76-9P 711012-77-0P 711012-78-1P**  
**711012-79-2P 711012-80-5P 711012-81-6P**  
**711012-82-7P 711012-83-8P 711012-84-9P**  
 711012-85-0P 711012-86-1P 711012-87-2P 711012-88-3P  
 711012-89-4P 711012-90-7P **711012-91-8P**  
**711012-92-9P 711012-93-0P 711012-94-1P**  
 711012-95-2P 711012-96-3P **711012-97-4P** 711012-98-5P  
 711012-99-6P 711013-00-2P 711013-01-3P 711013-02-4P  
**711013-03-5P 711013-04-6P**  
 (preparation of dihalo-allyloxy-phenol derivs. having pesticidal activity)  
 IT 540-38-5, 4-Iodophenol 867-13-0, Phosphonoacetic acid triethyl ester  
 2028-63-9, 3-Butyn-2-ol 2491-38-5 50586-62-4 **214704-58-2**  
 669055-91-8  
 (preparation of dihalo-allyloxy-phenol derivs. having pesticidal activity)  
 IT 32136-81-5P 711013-05-7P **711013-06-8P**  
 (preparation of dihalo-allyloxy-phenol derivs. having pesticidal activity)

L44 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:203839 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:253566  
 TITLE: Preparation of dihaloallyloxyphenoxypropoxyphenylazoles as pesticides.  
 INVENTOR(S): Zambach, Werner; Steiger, Arthur;  
 Renold, Peter; Trah, Stephan;  
 Hall, Roger Graham  
 PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.  
 SOURCE: PCT Int. Appl., 71 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004020445	A2	20040311	WO 2003-EP9636	20030829
WO 2004020445	A3	20040415		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,				

BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,  
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,  
 NE, SN, TD, TG

AU 2003266333 A1 20040319 AU 2003-266333 20030829

EP 1537077 A2 20050608 EP 2003-790947 20030829

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,  
 PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP 2006507245 T 20060302 JP 2004-532153 20030829

US 2005288186 A1 20051229 US 2005-525891 20050225

PRIORITY APPLN. INFO.: CH 2002-1487 A 20020830

WO 2003-EP9636 W 20030829

OTHER SOURCE(S): MARPAT 140:253566

ED Entered STN: 14 Mar 2004

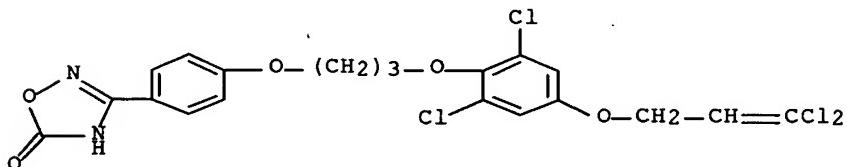
AB Title compds. [I; A0-A2 = bond, (substituted) alkylene; A3 = (substituted) alkylene; D = CH, N; X1, X2 = F, Cl, Br; R1-R3 = H, halo, OH, SH, cyano, NO<sub>2</sub>, alkyl, haloalkyl, alkylcarbonyl, alkenyl, haloalkenyl, alkynyl, alkoxy, alkenyloxy, alkynyoxy, alkoxy carbonyl, etc.; R4 = H, halo, OH, SH, cyano, NO<sub>2</sub>, alkyl, haloalkyl, alkylcarbonyl, alkoxy, alkylsulfonyl, alkoxy carbonyl, etc.; W = O, NR<sub>6</sub>, S, SO, SO<sub>2</sub>, CO<sub>2</sub>, etc.; T = bond, O, NH, NR<sub>6</sub>, S, SO, SO<sub>2</sub>, CO<sub>2</sub>, etc.; Q, Y = O, NR<sub>6</sub>, S, SO, SO<sub>2</sub>; R<sub>6</sub> = H, alkyl, haloalkyl, alkylcarbonyl, haloalkylcarbonyl, alkoxyalkyl, cycloalkyl, PhCH<sub>2</sub>; E = (substituted) heteroaryl; m = 1, 2; n = 1-3 when D = N; n = 1-4 when D = CH], were prepared Thus, 5-[4-[3-[2,6-dichloro-4-(3,3-dichloroallyloxy)phenoxy]propoxy]phenyl]-2H-tetrazole (preparation given) was stirred with EtI and K<sub>2</sub>CO<sub>3</sub> in DMF for 4 h at 50° to give 5-[4-[3-[2,6-dichloro-4-(3,3-dichloroallyloxy)phenoxy]propoxy]phenyl]-2H-2-ethyltetrazole. The latter as a 400 ppm spray on cabbage plants was >80% effective against Heliothis virescens caterpillars.

IT **669055-75-8P**

(preparation of dihaloallyloxyphenoxypropoxyphenylazoles as pesticides)

RN 669055-75-8 HCAPLUS

CN 1,2,4-Oxadiazol-5(2H)-one, 3-[4-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]phenyl]- (9CI) (CA INDEX NAME)



IC ICM C07D521-00

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5, 27

IT 669055-61-2P 669055-62-3P 669055-63-4P 669055-64-5P

669055-65-6P 669055-66-7P 669055-67-8P 669055-68-9P

669055-69-0P 669055-70-3P 669055-71-4P 669055-72-5P

669055-73-6P 669055-74-7P **669055-75-8P** 669055-76-9P

669055-77-0P 669055-78-1P 669055-79-2P 669055-80-5P

669055-81-6P 669055-82-7P 669055-83-8P

(preparation of dihaloallyloxyphenoxypropoxyphenylazoles as pesticides)

IT 669055-84-9P 669055-85-0P **669055-86-1P** 669055-87-2P,

4-(5-Isopropylsulfanyl-tetrazol-1-yl)-phenol 669055-88-3P  
 669055-89-4P 669055-90-7P

(preparation of dihaloallyloxyphenoxypropoxyphenylazoles as pesticides)

L44 ANSWER 6 OF 9 HCPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:20645 HCPLUS Full-text  
 DOCUMENT NUMBER: 140:93783  
 TITLE: Preparation of of 1-{4-(3,3-dihaloallyloxy)phenoxy}-3-phenoxypropanes as pesticides  
 INVENTOR(S): Zambach, Werner; Renold, Peter;  
 ; Steiger, Arthur; Trah, Stephan;  
 Hall, Roger Graham  
 PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.  
 SOURCE: PCT Int. Appl., 69 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004002943	A1	20040108	WO 2003-EP6846	20030627
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003246623	A1	20040119	AU 2003-246623	20030627
EP 1517881	A1	20050330	EP 2003-761545	20030627
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003012287	A	20050412	BR 2003-12287	20030627
CN 1681771	A	20051012	CN 2003-815304	20030627
JP 2005531621	T	20051020	JP 2004-516728	20030627
US 2005245583	A1	20051103	US 2004-518888	20041221
IN 2004CN02919	A	20060217	IN 2004-CN2919	20041222
PRIORITY APPLN. INFO.:			CH 2002-1123	A 20020628
			WO 2003-EP6846	W 20030627

OTHER SOURCE(S): MARPAT 140:93783

ED Entered STN: 11 Jan 2004

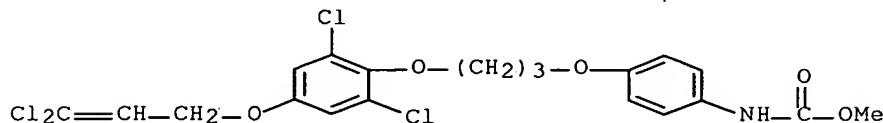
AB The title compds. [I; A1-A3 = a bond, alkylene; A4 = alkylene; D = CH, N; W = O, NR7, S, etc.; T = a bond, O, NH, NR7, etc.; Q = O, NR7, S, SO or SO2; Y = O, NR7, S, SO, or SO2; X1, X2 = F, Cl, Br; R1-R3 = H, halo, CN, NO2, alkyl, etc.; R4 = H, halo, CN, NO2, alkyl, etc.; R5, R6 = H, CN, OH, alkyl, etc.; R7 = H, alkyl, alkoxyalkyl, alkylcarbonyl, etc.; k = 1-3 when D = N, or k = 1-4 when D = CH; and m = 1-2], useful for controlling pests, were prepared. Thus, reacting 3-[2,6-dichloro-4-(3,3-dichloroallyloxy)phenoxy]propan-1-ol with tert-Bu (4-hydroxyphenyl)carbamate in the presence of azadicarboxylic acid diisopropyl ester and PPh3 in THF afforded II which showed to be more than 80% effective against Heliothis virescens caterpillars at 400 ppm.

IT **642461-12-9P**

(preparation of of 1-{4-(3,3-dihaloallyloxy)phenoxy}-3-phenoxypropanes as pesticides)

RN 642461-12-9 HCPLUS

CN Carbamic acid, [4-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



IC ICM C07C233-75

ICS C07C233-60; C07C233-25; C07C233-61; C07C233-33; C07C233-76; C07C233-80; C07C233-62; C07C233-34; C07C271-58; C07C271-28; C07C217-84; A01N047-20; A01N039-00; A01N037-24; A01N033-02

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5

IT 642461-10-7P 642461-11-8P **642461-12-9P**

642461-13-0P 642461-14-1P 642461-15-2P

642461-16-3P 642461-17-4P 642461-19-6P

642461-20-9P 642461-22-1P 642461-24-3P

642461-25-4P 642461-26-5P 642461-27-6P

642461-28-7P 642461-29-8P 642461-30-1P

642461-31-2P 642461-32-3P 642461-33-4P

642461-34-5P 642461-35-6P 642461-36-7P

642461-37-8P 642461-38-9P 642461-39-0P

642461-40-3P 642461-41-4P 642461-42-5P

642461-43-6P 642461-44-7P 642461-45-8P

642461-46-9P 642461-47-0P 642461-48-1P

642461-50-5P 642461-51-6P 642461-52-7P

642461-53-8P 642461-54-9P 642461-55-0P

642461-56-1P 642461-57-2P 642461-58-3P

642461-59-4P 642461-60-7P 642461-61-8P

642461-62-9P 642461-63-0P 642461-64-1P

642461-65-2P 642461-66-3P 642461-67-4P

642461-68-5P 642461-69-6P 642461-70-9P

642461-71-0P

(preparation of of 1-{4-(3,3-dihaloallyloxy)phenoxy}-3-phenoxypropanes as pesticides)

REFERENCE COUNT:

3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=&gt; d 7 ibib ab ind

L44 ANSWER 7 OF 9 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

ACCESSION NUMBER: 2001:556812 BIOSIS Full-text

DOCUMENT NUMBER: PREV200100556812

TITLE: Total synthesis of (+)-rocaglamide and some aryl analogues.

AUTHOR(S): Dobler, Markus R. [Reprint author]; Bruce, Ian; Cederbaum, Fredrik; Cooke, Nigel G.; Diorazio, Louis

CORPORATE SOURCE: J.; Hall, Roger G.; Irving, Ed  
 Syngenta Crop Protection AG, WRO-1060.3.10, 4002,  
 Basel, Switzerland  
 markus.dobler@syngenta.com

SOURCE: Tetrahedron Letters, (19 November, 2001) Vol. 42, No.  
 47, pp. 8281-8284. print.

CODEN: TELEAY. ISSN: 0040-4039.

DOCUMENT TYPE: Article  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 5 Dec 2001  
 Last Updated on STN: 25 Feb 2002

AB The insecticidal activity found for rocaglamide and its congeners, prompted us to establish a short and efficient synthesis of the natural product and some synthetic 'halo-aryl' analogues. Pd-catalysed cross-coupling reactions of the bromo analogue were then explored in order to gain a suitable access to a broad range of unnatural analogues. The key step of our approach is a **keto**-  
**aldehyde** acyloin ring-closure followed by a Stiles carboxylation.

CC Biochemistry studies - General 10060  
 Pest control: general, pesticides and herbicides 54600

IT Major Concepts  
 Biochemistry and Molecular Biophysics; Methods and Techniques;  
**Pesticides**

IT Chemicals & Biochemicals  
 dextro-rocaglamide: bromo-analogue, halo-aryl analogues,  
 insecticidal activity, synthesis

IT Methods & Equipment  
 Stiles carboxylation: synthetic method; **keto**-  
**aldehyde**  
 acyloin ring-closure: synthetic method

IT Miscellaneous Descriptors  
 cross-coupling reaction: palladium-catalyzed, synthetic method

=> d 8-9 iall abeq tech abex

L44 ANSWER 8 OF 9 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN  
 ACCESSION NUMBER: 2001-112299 [12] WPIX  
 DOC. NO. CPI: C2001-033348 [12]  
 TITLE: New tetrazine derivatives useful as  
**pesticides**  
 DERWENT CLASS: B02; B03; C02; D22; E13; F06  
 INVENTOR: EBERLE M; JEANGUENAT A; NAEF R; STEIGER A; TRAH S;  
**ZAMBACH W**  
 PATENT ASSIGNEE: (NOVS-C) NOVARTIS AG; (NOVS-C) NOVARTIS-ERFINDUNGEN  
 VERW GES MBH; (SYNG-N) SYNGENTA PARTICIPATIONS AG  
 COUNTRY COUNT: 93

#### PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2000078739	A1	20001228	(200112)*	EN	88[0]	C07D257-08
AU 2000054056	A	20010109	(200122)	EN		C07D257-08
EP 1187818	A1	20020320	(200227)	EN		C07D257-08
JP 2003502413	W	20030121	(200308)	JA	112	C07D257-08

#### APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2000078739	A1	WO 2000-EP5627	20000619

AU 2000054056 A	AU 2000-54056 20000619
EP 1187818 A1	EP 2000-938800 20000619
EP 1187818 A1	WO 2000-EP5627 20000619
JP 2003502413 W	WO 2000-EP5627 20000619
JP 2003502413 W	JP 2001-504905 20000619

## FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2000054056 A	Based on	WO 2000078739 A
EP 1187818 A1	Based on	WO 2000078739 A
JP 2003502413 W	Based on	WO 2000078739 A

PRIORITY APPLN. INFO: CH 1999-1148 19990621

## INT. PATENT CLASSIF.:

MAIN: C07D257-08  
 IPC RECLASSIF.: A01N0043-713 [I,A]; A01N0043-713 [I,C]; C07D0257-00  
                   [I,C]; C07D0257-08 [I,A]; C07D0401-00 [I,C];  
                   C07D0401-04 [I,A]  
 INDEX: C07M007:00

## BASIC ABSTRACT:

WO 2000078739 A1 UPAB: 20050524  
 NOVELTY - Tetrazine derivatives (I) are new.  
 DETAILED DESCRIPTION - Tetrazine derivatives of formula (I) and their  
 E/Z isomers and/or tautomers and salts are new.  
 T-V = NN or NHHH;  
 X1 = a group R1;  
 X2 = X3, H or R1;  
 R1 = halo, CN, CN, NO<sub>2</sub>, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 3-  
 8C halocycloalkyl, 1-6C alkoxy, 3-8C cycloalkoxy, 1-6C haloalkoxy, 3-8C  
 halocycloalkoxy, 1-6C alkylthio, 3-8C cycloalkylthio, 1-6C haloalkylthio or 3-  
 8C halocycloalkylthio;  
 Ar1 = aryl or heteroaryl (both optionally substituted by 1-5 Q);  
 Q = OH, halo, CN, NO<sub>2</sub>, 1-6C alkyl, 3-8C cycloalkyl, 1-6C alkyl-3-8C  
 cycloalkyl, 3-8C cycloalkoxy, 1-6C haloalkoxy, 3-8C halocycloalkoxy, 1-6C  
 alkylthio, 3-8C cycloalkylthio, 1-6C haloalkylthio, 3-8C halocycloalkylthio,  
 1-6C alkylsulfonyl, 3-8C cycloalkylsulfinyl, 1-6C haloalkylsulfinyl, 3-8C  
 halocycloalkylsulfinyl, 1-6C alkylsulfonyl, 3-8C cycloalkylsulfonyl, 1-6C  
 haloalkylsulfonyl, 3-8C halocycloalkylsulfonyl, 2-8C alkenyl, 2-8C alkynyl, 2-  
 7C alkylcarbonyl, (1-6C alkyl)C(=NOR-2) or R3;  
 Ar2 = aryl or heteroaryl (both optionally substituted by 1-5 Q);  
 A = a bond, 1-12C alkylene, O, O-12C alkylene, S(O)n, S(O)n-1-12C  
 alkylene, 2-8C alkenylene, 2-8C alkenylene, 2-8C alkynylene, NR6, NR61-12C  
 alkylene or C(=Z);  
 Z = O, NR4, NNR4R5 or NOR4;  
 R2 = H, 1-6C alkyl or 3-8C cycloalkyl;  
 R3 = a group of formula (a);  
 R4, R5 = H, 1-6C alkyl or 1-6C haloalkyl;  
 R6 = H, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 2-8C alkenyl, 2-8C  
 alkynyl, aryl-1-6C alkyl, (CH<sub>2</sub>)<sub>p</sub>C(O)R7 or 1-6C alkoxy-2-6C alkyl;  
 R7 = H, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 1-6C alkoxy,  
 N(R8)<sub>2</sub> or 1-6C alkoxy-2-6C alkyl;  
 R8 = H, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl or aryl-1-6C alkyl;  
 R9, R10 = H or 1-6C alkyl;  
 m = 1-4;  
 n = 0-2;  
 p = 0-6 and  
 Q = O or S,

provided that when T-V is NH-NH, then X1 is halo, X2 and X3 are H, Ar1 and Ar2 are optionally substituted phenyl, then A is not a bond.

ACTIVITY - **Pesticidal**; insecticidal; antiparasitic; acaricidal; antifungal.

MECHANISM OF ACTION - None given.

USE - Used for control of pests on domestic animals and productive livestock and in crops of useful plants. (I) Are active against all or individual development stages of normally sensitive animal pests, but also of resistant animal pests such as insects and acarina. (I) Are active against e.g. plant-destructive feeding insects such as *Anthomonas grandis*, *Diabrotica balteata*, *Heliothis virescens* larvae, *Plutella xylostella* and *Spodoptera littoralis* larvae and spider mites such as *Tetranychus* species in cotton, fruit, citrus, maize, soybean, rape and vegetable crops.

(I) Are also useful for protecting plant propagation material such as fruits, tubers or grains, or plant cuttings against fungal infections and animal pests. (I) Can be used in natural and genetically modified crops, especially cereals such as wheat, barley, rye, oats, rice, maize and sorghum, beet such as sugar and fodder beet, fruit, e.g. pomes, stone fruit and soft fruit such as apples, pears, plums, peaches, almonds, cherries and berries such as strawberries, raspberries and blackberries, legumes such as beans, lentils, peas and soybeans, oil plants such as rape, mustard, poppy, olives, sunflowers, coconut, castor oil, cocoa and groundnuts, cucurbitaceae such as marrows, cucumbers and melons, fiber plants such as cotton, flax, hemp and jute, citrus fruits such as oranges, lemons, grapefruit and mandarins, vegetables such as spinach, lettuce, asparagus, cabbage, carrots, onions, tomatoes, potatoes and paprika, lauraceae such as avocado, cinnamon and camphor and tobacco, nuts, coffee, aubergines, sugar cane, tea, pepper, vines, hops, bananas, natural rubber plants and ornamentals.

(I) Are also used to protect stored goods and storerooms and raw materials and in the hygiene sector, especially in the protection of warm blooded animals including farm animals such as cows, pigs, sheep and goats, poultry such as hens, turkeys and geese, animals bred for their fur such as mink, foxes, chinchillas and rabbits and domestic animals such as cats and dogs and humans against e.g. fleas.

(I: T-V = N=N; R1, X3 = H; X1, X2 = F; R2 = -(3,5-C12-Ph) gives at least 80% reduction in pest populations of *Diabrotica balteata*, *Heliothis virescens* and *Spodoptera littoralis* at an application rate of 100 ppm.

ADVANTAGE - (I) Are well tolerated by warm-blooded animals, fish and plants. (I) Have an advantageous biocidal spectrum even at low concentrations.

MANUAL CODE: CPI: B06-H; B07-D13; B14-B02; B14-B04A; B14-B04B;  
C06-H; C07-D13; C14-A06; C14-B02; C14-B04A; C14-B04B;  
D09-B; E06-H; E07-D13; F03-C02B

#### TECH

ORGANIC CHEMISTRY - Preparation: Preparation of (I) comprises e.g. reacting a hydrazine derivative of formula (II) and a **ketone** compound of formula (III) in the presence of a catalyst.

ABEX WIDER DISCLOSURE - Intermediates of formula (VI) are also stated to be new. - Q1 = a leaving group.

ADMINISTRATION - The application rate is 1-2000 (especially 20-600) g a.i./ha. For treatment of animals administration may be external or internal at a rate of 0.01-800 (especially 0.5-30) mg/kg. (I) can be used alone or in combination with other biocides.

EXAMPLE - Phosphorus pentachloride (6.97 g) at 110degreesC was introduced into dichlorobenzene (30 ml) over 15 minutes and 4'-chlorobiphenyl-4-carboxylic acid N'-(2,6-difluorobenzoyl)hydrazide (2.88 g) was added portionwise. The mixture was stirred for 2.5 hours and worked up to give N-(chloro-(4'-chlorobiphenyl-4-yl)-methylidene)-N'-(chloro-(2,6-difluorophenyl)-methylidene)hydrazine, m. pt. 149-161degreesC. This product (2.2 g) was added portionwise at 15-20degreesC to 22 ml 0.5M hydrazine in tetrahydrofuran and the

mixture stirred at room temperature for 45 hours. The mixture was then poured into water and worked up to give 3-(4'-chlorobiphenyl-4-yl)-6-(2,6-difluorophenyl)-1,2-dihydro(1,2,4,5)-tetrazine, m. pt. 242-248 degrees C.

L44 ANSWER 9 OF 9 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN  
 ACCESSION NUMBER: 2000-665334 [64] WPIX  
 DOC. NO. CPI: C2000-201613 [64]  
 TITLE: New 1,2,4-triazine derivatives useful as pesticides on plants and animals  
 DERWENT CLASS: C02  
 INVENTOR: EBERLE M; FAROOQ S; JEANGUENAT A; STEIGER A; TRAH S;  
**ZAMBACH W**  
 PATENT ASSIGNEE: (EBER-I) EBERLE M; (FARO-I) FAROOQ S; (JEAN-I)  
 JEANGUENAT A; (NOVS-C) NOVARTIS AG; (NOVS-C) NOVARTIS ANIMAL HEALTH US INC; (NOVS-C) NOVARTIS PHARMA GMBH; (NOVS-C) NOVARTIS-ERFINDUNGEN VERW GES MBH; (STEI-I) STEIGER A; (TRAH-I) TRAH S; (ZAMB-I) ZAMBACH W; (SYGN-C) SYNGENTA PARTICIPATIONS AG  
 COUNTRY COUNT: 91

## PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2000066568	A1	20001109	(200064)*	EN	101[0]	
AU 2000042986	A	20001117	(200111)	EN		
EP 1175410	A1	20020130	(200216)	EN		
BR 2000010294	A	20020213	(200220)	PT		
CZ 2001003961	A3	20020213	(200221)	CS		
KR 2002011406	A	20020208	(200255)	KO		A01N043-707
CN 1349514	A	20020515	(200260)	ZH		
ZA 2001008943	A	20020828	(200264)	EN	109	
JP 2002543191	W	20021217	(200312)	JA	129	C07D253-06
US 20030036544	A1	20030220	(200316)	EN		
AU 762755	B	20030703	(200354)	EN		
MX 2001011054	A1	20020601	(200365)	ES		A01N043-707
US 6723720	B2	20040420	(200427)	EN		
RU 2252217	C2	20050520	(200535)	RU		
EP 1175410	B1	20051207	(200582)	EN		
DE 60024610	E	20060112	(200613)	DE		
CN 1171880	C	20041020	(200615)	ZH		
MX 229067	B	20050711	(200627)	ES		A01N043-707
ES 2254165	T3	20060616	(200641)	ES		
DE 60024610	T2	20060803	(200651)	DE		

## APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2000066568 A1		WO 2000-EP3921	20000502
AU 2000042986 A		AU 2000-42986	20000502
AU 762755 B		AU 2000-42986	20000502
BR 2000010294 A		BR 2000-10294	20000502
CN 1349514 A		CN 2000-807104	20000502
CN 1171880 C		CN 2000-807104	20000502
DE 60024610 E		DE 2000-624610	20000502
EP 1175410 A1		EP 2000-922671	20000502
EP 1175410 B1		EP 2000-922671	20000502
DE 60024610 E		EP 2000-922671	20000502

ES 2254165 T3	EP 2000-922671 20000502
JP 2002543191 W	JP 2000-615599 20000502
EP 1175410 A1	WO 2000-EP3921 20000502
BR 2000010294 A	WO 2000-EP3921 20000502
CZ 2001003961 A3	WO 2000-EP3921 20000502
JP 2002543191 W	WO 2000-EP3921 20000502
US 20030036544 A1 Cont of	WO 2000-EP3921 20000502
MX 2001011054 A1	WO 2000-EP3921 20000502
US 6723720 B2 Cont of	WO 2000-EP3921 20000502
RU 2252217 C2	WO 2000-EP3921 20000502
EP 1175410 B1	WO 2000-EP3921 20000502
DE 60024610 E	WO 2000-EP3921 20000502
MX 229067 B	WO 2000-EP3921 20000502
CZ 2001003961 A3	CZ 2001-3961 20000502
RU 2252217 C2	RU 2001-132322 20000502
MX 2001011054 A1	MX 2001-11054 20011030
MX 229067 B	MX 2001-11054 20011030
ZA 2001008943 A	ZA 2001-8943 20011030
KR 2002011406 A	KR 2001-714062 20011103
US 6723720 B2	US 2001-6954 20011105
US 20030036544 A1	US 2001-6954 20011205
DE 60024610 T2	DE 2000-624610 20000502
DE 60024610 T2	EP 2000-922671 20000502
DE 60024610 T2	WO 2000-EP3921 20000502

## FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 762755	B	Previous Publ
DE 60024610	E	Based on
ES 2254165	T3	Based on
AU 2000042986	A	Based on
EP 1175410	A1	Based on
BR 2000010294	A	Based on
CZ 2001003961	A3	Based on
JP 2002543191	W	Based on
AU 762755	B	Based on
MX 2001011054	A1	Based on
RU 2252217	C2	Based on
EP 1175410	B1	Based on
DE 60024610	E	Based on
MX 229067	B	Based on
DE 60024610	T2	Based on
DE 60024610	T2	Based on
		AU 2000042986 A
		EP 1175410 A
		WO 2000066568 A
		WO 2000066568 A
		WO 2000066568 A
		WO 2000066568 A
		WO 2000066568 A
		WO 2000066568 A
		WO 2000066568 A
		WO 2000066568 A
		WO 2000066568 A
		WO 2000066568 A
		WO 2000066568 A
		EP 1175410 A
		WO 2000066568 A

PRIORITY APPLN. INFO: CH 1999-832 19990504

INT. PATENT CLASSIF.:

MAIN:	A01N043-707; C07D253-06
IPC ORIGINAL:	A01N0043-64 [I,C]; A01N0043-64 [I,C]
IPC RECLASSIF.:	A01N0043-64 [I,C]
; A01N0043-707	[I,A]; A01N0043-707 [I,A]
; A01N0043-707	[I,A]; A01N0057-00 [I,C]; A01N0057-22 [I,A];
	A01N0057-24 [I,A]
; C07D0253-00	[I,C]; C07D0253-00 [I,C]
; C07D0253-00	[I,C]
; C07D0253-06	[I,A]
; C07D0253-06	[I,A]
; C07D0253-06	[I,A]
; C07D0253-065	[I,A]; C07D0253-07 [I,A]; C07D0403-00 [I,C];

C07D0403-04 [I,A]; C07D0405-00 [I,C]; C07D0405-04  
 [I,A]; C07D0409-00 [I,C]; C07D0409-04 [I,A];  
 C07D0409-06 [I,A]; C07D0417-00 [I,C]; C07D0417-04  
 [I,A]; C07D0417-06 [I,A]

## BASIC ABSTRACT:

WO 2000066568 A1 UPAB: 20060202

NOVELTY - 1,2,4-Triazine derivatives (I) useful as **pesticides** are new.

DETAILED DESCRIPTION - 1,2,4-Triazine derivatives of formula (I) and their E/Z isomers, tautomers or salts are new.

R1 = phenoxy, phenylthio, phenylamino, phenyl-(1-6C alkyl)-amino (all optionally substituted with 1-5 halo, CN, NO<sub>2</sub>, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 3-8C halocycloalkyl, 1-6C alkoxy, 3-8C cycloalkoxy, 1-6C haloalkoxy, 1-6C alkylthio, 3-8C cycloalkylthio, 1-6C haloalkylthio, 3-8C halocycloalkylthio, 1-6C alkylsulfinyl, 1-6C haloalkylsulfinyl, 1-6C alkylsulfonyl or 1-6C haloalkylsulfonyl), aryl or heteroaryl (both optionally substituted with 1-5 T, -P(=O)(O-1-6C alkyl)<sub>2</sub>, phenyl or heteroaryl (both optionally substituted with 1-5 T, -CH(=NOR<sub>6</sub>), -C(1-6C alkyl)(=NOR<sub>6</sub>), -CHO, -C(O)-1-6C alkyl))

T = OH, halo, CN, NO<sub>2</sub>, 1-6C alkyl, 3-8C cycloalkyl, 3-8C cycloalkenyl (optionally substituted), 1-6C alkyl-3-8C cycloalkyl, 3-8C cycloalkyl-1-6C alkyl, 1-6C haloalkyl, 3-8C halocycloalkyl, 1-6C alkoxy, 3-8C cycloalkoxy, 1-6C haloalkoxy, 3-8C halocycloalkoxy, 1-6C alkylthio, 3-8C cycloalkylthio, 1-6C haloalkylthio, 3-8C halocycloalkylthio, 1-6C alkylsulfinyl, 3-8C cycloalkylsulfinyl, 1-6C haloalkylsulfinyl, 3-8C halocycloalkylsulfinyl, 1-6C alkylsulfonyl, 3-8C cycloalkylsulfonyl, 1-6C haloalkylsulfonyl, 3-8C halocycloalkylsulfonyl, 2-8C alkenyl or 2-8C alkynyl (both optionally substituted), 1-6C alkylcarbonyl, 1-6C alkyl-C(=NOR<sub>6</sub>) or R7;

R2 = H, OH, halo, CN, NO<sub>2</sub>, 1-6C alkyl (optionally substituted), 1-6C alkoxy, 1-6C alkoxy-1-6C alkyl, 1-6C alkylthio, 1-6C alkylthio-1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 3-8C halocycloalkyl, -NH-1-6C alkyl, SH or CH<sub>2</sub>-NO<sub>2</sub>;

A = single bond, 1-12C alkylene, O, O(1-12C alkylene), S(O)n, S(O)n(1-12C alkylene), 2-8C alkenylene, 2-8C alkynylene, NR<sub>3</sub> or NR<sub>3</sub>(1-12C alkylene);

R3 = H, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 2-8C alkenyl, 2-8C alkynyl, aryl-1-6C alkyl, (CH<sub>2</sub>)<sub>p</sub>C(O)R<sub>4</sub> or 1-6C alkoxy-2-6C alkyl;

R4 = H, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 1-6C alkoxy, N(R<sub>5</sub>)<sub>2</sub> or 1-6C alkoxy-2-6C alkyl;

R5 = H, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl or aryl-1-6C alkyl;

R6 = H, 1-6C alkyl, 3-8C cycloalkyl or -C(O)-R<sub>5</sub>;

R7 = a group of formula (i);

R8, R9 = H or 1-6C alkyl;

X<sub>1</sub> = R<sub>10</sub>;

X<sub>2</sub>, X<sub>3</sub> = H or R<sub>10</sub>;

R<sub>10</sub> = halo, CN, NO<sub>2</sub>, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 3-8C halocycloalkyl, 1-6C alkoxy, 3-8C cycloalkoxy, 1-6C haloalkoxy, 3-8C halocycloalkoxy, 1-6C alkylthio, 3-8C cycloalkylthio, 1-6C haloalkylthio or 3-8C halocycloalkylthio;

m = 1-4;

n = 0-2;

W' = O or S; and

provided that:

(1) A-R<sub>1</sub> and phenyl substituted with X<sub>1</sub>-X<sub>3</sub> are not in the vicinal position relative to one another on the triazine ring;

(2) X<sub>1</sub> is not methyl, Cl or F, when X<sub>2</sub>, X<sub>3</sub> are H, A is single bond, R<sub>1</sub> is phenyl, 2-fluorophenyl, 3-fluorophenyl or 4-fluorophenyl and R<sub>2</sub> is H, Cl or ethylamino; and

(3) (I) excludes 3,6-di-(2-chlorophenyl)-5-hydroxy-1,2,4-triazine and 3-(2-methylphenyl)-6-(4-methylphenyl)-5-trifluoromethyl-1,2,4-triazine.

An INDEPENDENT CLAIM is also included for a plant propagation material treated with (I) or composition comprising (I).

ACTIVITY - **Pesticidal**; antiparasitic; insecticidal; ovicidal; acaricidal. Young soybean plants were sprayed with an aqueous emulsion spray mixture comprising 6-(4'-chloro-biphenyl-4-yl)-3-(2,6-difluorophenyl)-(1,2,4)triazine (Ia) (100 ppm) and, after the spray coating had dried, were populated with *Heliothis virescens* (10 caterpillars) and then placed in a plastic container. Six days later, the percentage reduction in population and in feeding damage were determined by comparing the number of dead caterpillars on the treated plants with that on untreated plants. (Ia) gave a reduction in pest population of more than 80 %.

MECHANISM OF ACTION - None given.

USE - (I) are useful for controlling pests, parasites on plants and on warm-blooded animals, and protecting vegetative reproductive material e.g. seeds (all claimed). MANUAL CODE: CPI: C07-D13; C14-B02; C14-B04; C14-U02

#### TECH

ORGANIC CHEMISTRY.- Preparation: (I) may be prepared by e.g.: (1) reacting a benzoyl compound of formula (II) with 2 equivalents of a carbonyl hydrazine compound of formula (III) to give (I; A = single bond; and phenyl substituted with X<sub>1</sub>-X<sub>3</sub> is in the 6-position on the triazine ring), optionally in the presence of a catalyst (e.g. silver acetate); or

(2) reacting a benzoyl hydrazine compound of formula (IV) with one equivalent of a **ketone** of formula (V) to give (I; A = single bond; and phenyl substituted with X<sub>1</sub>-X<sub>3</sub> is in the 3-position on the triazine ring), optionally in the presence of a catalyst (e.g. silver acetate).

Q = leaving group.

ABEX DEFINITIONS - Preferred Definition: - A = single bond, 1-12C alkylene, O, methoxy, 2-4C alkenylene, 2-4C alkynylene or NR<sub>3</sub>; and - X<sub>1</sub> = halo, 1-4C alkyl, 3-6C cycloalkyl, 1-4C haloalkyl, 1-4C alkoxy, 1-4C haloalkoxy, 1-4C alkylthio or 1-4C haloalkylthio.

ADMINISTRATION - (I) are applied to the pests or their locus (claimed). Dose may be 1-2000, preferably 20-600, g/ha on plants or their locus, or 0.01-800, preferably 0.5-30, mg/kg body weight based on the host animal.

SPECIFIC COMPOUNDS - 1261 Compounds (I) are disclosed e.g. 6-(4'-chloro-biphenyl-4-yl)-3-(2,6-difluorophenyl)-(1,2,4)triazine (Ia).

EXAMPLE - 2,6-Difluoroacetophenone (40.6 g) was placed in chloroform (120 ml), and aluminum chloride (0.1 g) was added. Bromine (37 g) in chloroform (240 ml) at 0 degree C was added dropwise and the mixture was stirred at 0 degree C for 1 hour. The mixture was then heated to room temperature and concentrated. The residue was distilled over a Vigreux column to obtain 2-bromo-1-(2,6-difluorophenyl)ethanone (A) (m.pt. : 101-110 degrees C at 9 mbar). 4-Bromobenzoic acid hydrazide (24.2 g) and silver acetate (9.17 g) were placed in dimethoxyethane (290 ml). The brown suspension was heated at 60 degrees C. (A) (12.9 g) was added and the mixture was stirred under reflux (85 degrees C) four 48 hours. The suspension was cooled to 40 degrees C and filtered. The filtrate was concentrated and purified using flash column chromatography (silica gel; dichloromethane/n-hexane 1:1) to give 3-(4-bromophenyl)-6-(2,6-difluorophenyl)-(1,2,4)triazine, m.pt. 167-168 degrees C.

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(FILE 'HOME' ENTERED AT 11:11:15 ON 30 JAN 2007)

FILE 'HCAPLUS' ENTERED AT 11:11:25 ON 30 JAN 2007

L1 1 SEA ABB=ON PLU=ON US20060128670/PN

FILE 'REGISTRY' ENTERED AT 11:11:40 ON 30 JAN 2007

L2 115 SEA ABB=ON PLU=ON (100-06-1/BI OR 104-92-7/BI OR  
 111-34-2/BI OR 17159-98-7/BI OR 178043-48-6/BI OR 2491-38-5  
 /BI OR 32136-81-5/BI OR 3470-50-6/BI OR 5323-87-5/BI OR  
 669055-85-0/BI OR 669055-86-1/BI OR 669055-91-8/BI OR  
 770-39-8/BI OR 818375-24-5/BI OR 818375-25-6/BI OR  
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 818376-10-2/BI OR 81837

STR

L4 50 SEA SSS SAM L3

L5 7 SEA ABB=ON PLU=ON L2 AND L4

L6 STR

L7 2411 SEA SSS FUL L3

L8 104 SEA ABB=ON PLU=ON L7 AND L2

L9 50 SEA SUB=L7 SSS SAM L6

L10 1244 SEA SUB=L7 SSS FUL L6

SAV L7 KUM292/A

SAV L10 KUM292A/A

L11 0 SEA ABB=ON PLU=ON L10 AND MEDLINE/LC

L12 0 SEA ABB=ON PLU=ON L10 AND BIOSIS/LC

L13 0 SEA ABB=ON PLU=ON L10 AND EMBASE/LC

L14 0 SEA ABB=ON PLU=ON L10 AND DRUGU/LC

FILE 'HCAPLUS' ENTERED AT 11:52:08 ON 30 JAN 2007

L15            87 SEA ABB=ON PLU=ON L10  
 L16            68 SEA ABB=ON PLU=ON L15 AND (1840-2003)/PRY,AY,PY

FILE 'REGISTRY' ENTERED AT 11:53:12 ON 30 JAN 2007  
 L17            1015 SEA ABB=ON PLU=ON L10 AND 2-100/NR

FILE 'HCAPLUS' ENTERED AT 11:54:26 ON 30 JAN 2007

FILE 'REGISTRY' ENTERED AT 11:54:36 ON 30 JAN 2007  
 L18            101 SEA ABB=ON PLU=ON L2 AND L17

FILE 'HCAPLUS' ENTERED AT 11:54:51 ON 30 JAN 2007

L19            2 SEA ABB=ON PLU=ON L18  
 L20            60 SEA ABB=ON PLU=ON L17  
 L21            43 SEA ABB=ON PLU=ON L20 AND (1840-2003)/PRY,AY,PY  
 L22            23 SEA ABB=ON PLU=ON ZAMBACH, W?/AU  
 L23            3773 SEA ABB=ON PLU=ON HALL, R?/AU  
 L24            27 SEA ABB=ON PLU=ON RENOLD, P?/AU  
 L25            56 SEA ABB=ON PLU=ON TRAH, S?/AU  
 L26            6 SEA ABB=ON PLU=ON (L22 OR L23 OR L24 OR L25) AND L20  
 L27            38 SEA ABB=ON PLU=ON L21 NOT L26  
 L28            40 SEA ABB=ON PLU=ON L21 AND (AGR OR BSU OR BIOL OR  
               PREP)/RL  
 L29            35 SEA ABB=ON PLU=ON L28 NOT L26  
 L30            53 SEA ABB=ON PLU=ON L15 AND AGR/RL

FILE 'REGISTRY' ENTERED AT 13:09:22 ON 30 JAN 2007

L31            STR  
 L32            48 SEA SUB=L7 SSS SAM L31  
 L33            813 SEA SUB=L7 SSS FUL L31  
               SAV L33 KUM292B/A

FILE 'HCAPLUS' ENTERED AT 13:14:49 ON 30 JAN 2007

L34            71 SEA ABB=ON PLU=ON L33  
 L35            66 SEA ABB=ON PLU=ON L34 AND (AGR OR BSU OR BIOL OR  
               PREP)/RL  
 L36            54 SEA ABB=ON PLU=ON L35 AND (1840-2003)/PRY,AY,PY  
 L37            49 SEA ABB=ON PLU=ON L36 NOT L26

FILE 'EMBASE, BIOSIS, DRUGU, MEDLINE, WPIX, JICST-EPLUS, JAPIO,  
 LIFESCI, SCISEARCH' ENTERED AT 13:16:41 ON 30 JAN 2007

L38            26 SEA ABB=ON PLU=ON ZAMBACH, W?/AU  
 L39            37 SEA ABB=ON PLU=ON RENOLD, P?/AU  
 L40            17 SEA ABB=ON PLU=ON TRAH, STEPHAN?/AU  
 L41            107 SEA ABB=ON PLU=ON HALL, ROGER?/AU  
 L42            36 SEA ABB=ON PLU=ON (L38 OR L39 OR L40 OR L41) AND  
               PESTICID?  
 L43            4 SEA ABB=ON PLU=ON L42 AND KETO?

FILE 'HCAPLUS, BIOSIS, WPIX' ENTERED AT 13:24:54 ON 30 JAN 2007

L44            9 DUP REM L26 L43 (1 DUPLICATE REMOVED)  
               ANSWERS '1-6' FROM FILE HCAPLUS  
               ANSWER '7' FROM FILE BIOSIS  
               ANSWERS '8-9' FROM FILE WPIX